MITSUBISHI

DEHUMIDIFIER

2010

No.MJW-10010

SERVICE MANUAL

Model MJ-E15BX-S1-IT

Sold from 2010

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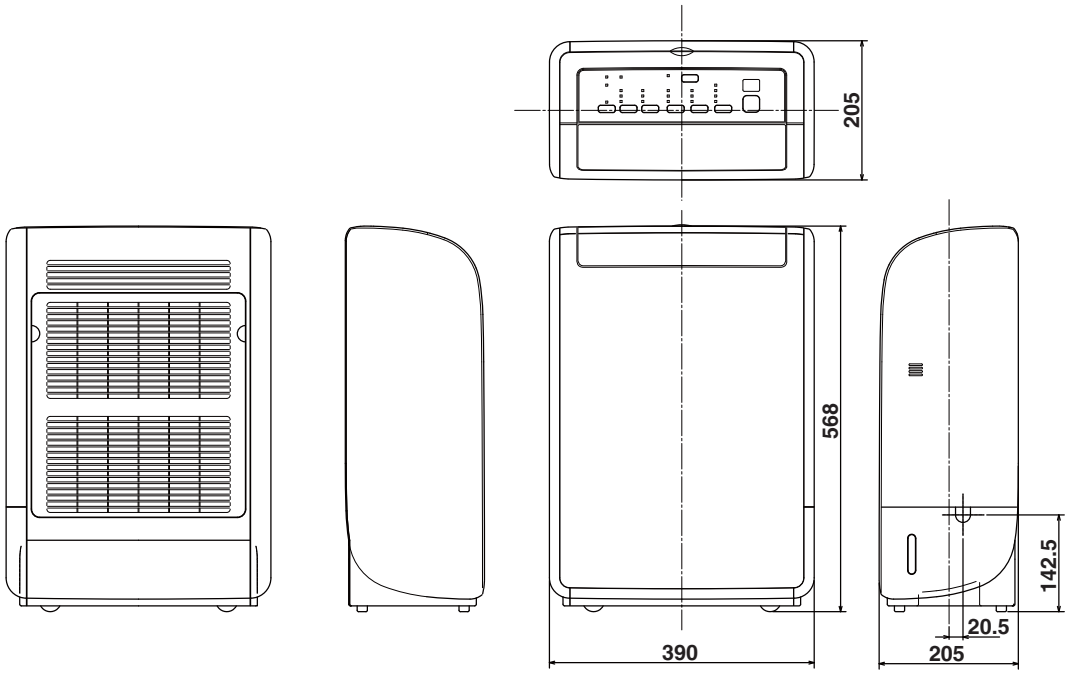
1. Product specifications

Item \ Mode			MJ-E15BX-S1-IT								
Performance	Dehumidifying capacity (30°C room temperature, 80% relative humidity) (liters/day)		15.0								
	Operating noise levels(dB)	High	49								
		Low	39								
Electrical characteristics	Power supply (phases,V,Hz)		Single phase, 220-240V, 50Hz								
	Power consumption (W)		290								
	Operating current (A)		1.4								
	Starting current (A)		5.5								
Product performance	Color tone		Mocha								
	Dimensions (H×W×D mm)		568×390×205								
	Weight (kg)		14								
	Coolant quantity (g)		160								
	Evaporator		Slit fin								
	Condenser		Slit fin								
	Compressor	Compressor protection	Thermal overcurrent relay								
		Model	XB460VTE								
		Output (W)	150								
		Winding resistance (Ω)(20˚C)	Primary: 26.1, subsidiary: 70.7								
	Blower	Blower protection	With temperature fuse								
		Type	Sirocco fan								
		Output (W)	Cool air motor: 10 W, Warm air motor: 20 W								
		Speed (rpm)	AUT0	Cool air	Warm air	LOW	Cool air	Warm air	LAUNDRY (HIGH)	Cool air	Warm air
				980	1100		780	738		1200	1100
		Flow rate (m^3/min)		4.0			2.6			4.3	
	Operating room temperature (reference) (˚C)		1 ~ 35 (˚C)								
	Defrosting method		Hot gas type								
	Humidity control		Built-in humidity sensor								
	Tank full protection		Lead switch (automatic)								
	Tank capacity (liters)		Auto-stopper tripped with about 2.5 liters of water								
	Continuous drainage		Commercial hose (inside diameter 15 mm)								
	Operation modes		DEHUMIDIFYING (AUTO•HIGH•LOW), LAUNDRY (HEAVY•NORMAL•HIGH), SPOT AIR (WARM AIR•COOL AIR/VARY•COOL AIR/LOW), DEO-DRY, DRYING INSIDE								
	Timer		Off timer (2•4•8h)								
	Air cleaning performance		Yes								
	Plug socket rating		16A								

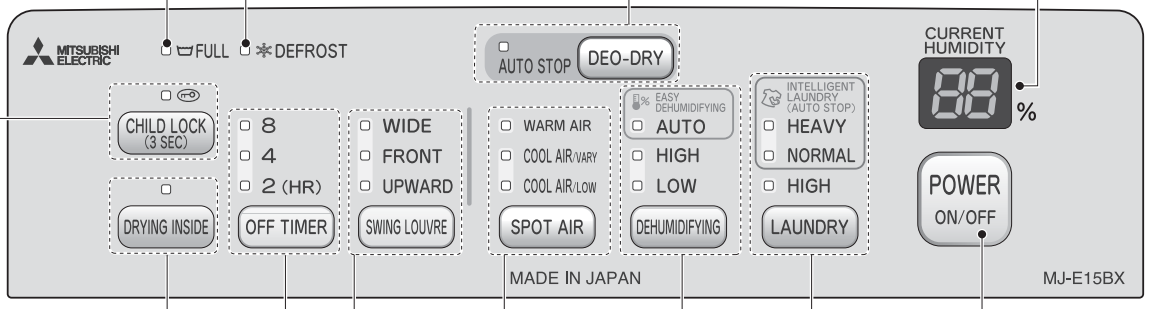
- The operating noise levels indicated are typical values measured in our anechoic room.

2. Outer Dimensions



3. Names and Functions of Parts

Control Panel



- **CHILD LOCK lamp**
  Lights while child lock is active.
- **CHILD LOCK Switch**
  To lock/unlock the switch, press the switch for at least 3 seconds.

- **Tank FULL lamp**
  The lights up to warn that the water tank is full.

- **DEFROST lamp**
  Lights during defrosting operation.

- **DEO-DRY lamp**
  Lights during deodorizing clothes operation.
- **DEO-DRY Switch**
  Switches to deodorizing clothes operation.

- **CURRENT HUMIDITY Indicator**
  This indicates the approximate current humidity (The current humidity is displayed in a range from 30 to 80%).

- **DRYING INSIDE lamp**
  - Flashes during the drying inside operation.
  - Lights when the drying inside operation is waiting to begin.
- **DRYING INSIDE switch**
  Use this to switch the internal drying operation ON and OFF.

- **Operation Mode lamps**
  The lamp for the current operating mode lights.
- **SPOT AIR Switch**
  Switches to cold wind operation.

- **Operation Mode lamps**
  The lamp for the current operating mode lights.
- **DEHUMIDIFYING Switch**
  Switches to dehumidifying operation.

- **Operation Mode lamps**
  The lamp for the current operating mode lights.
- **LAUNDRY Switch**
  Switches to laundry operation.

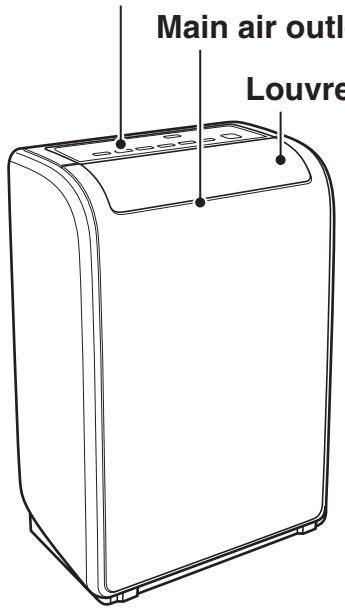
- **POWER ON/OFF Switch**
  Use this to turn the power ON and OFF.

- **OFF TIMER lamps**
  The lamp for the remaining time lights when the OFF timer is operating.
- **OFF TIMER Switch**
  Use this to set the OFF timer operation time.

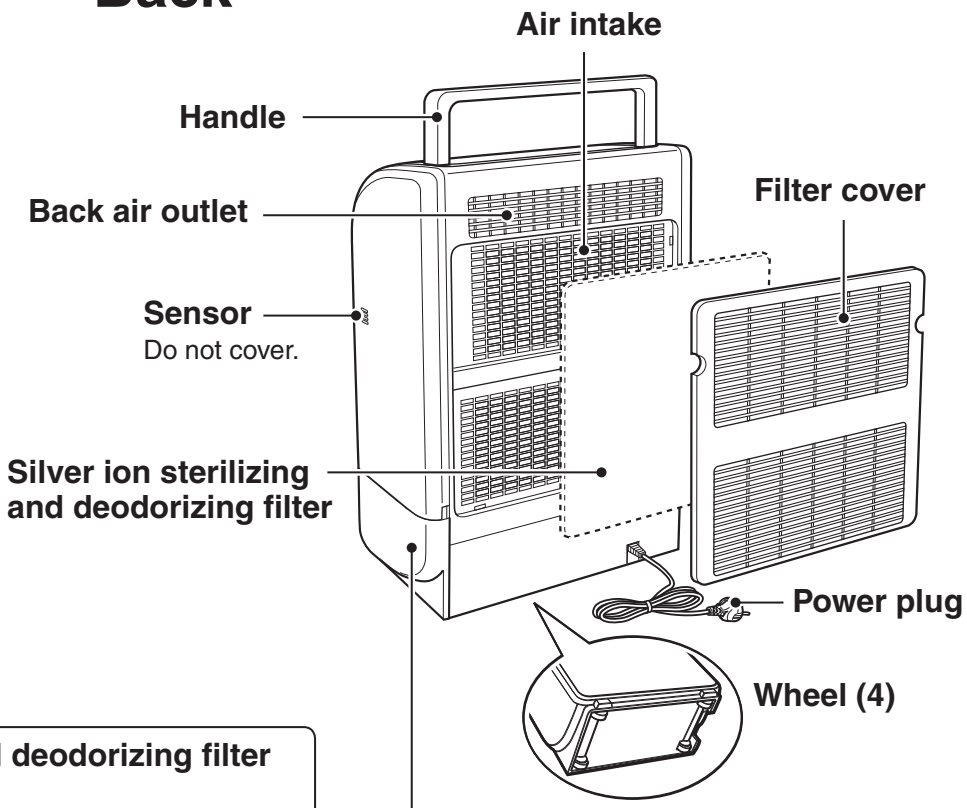
- **SWING LOUVRE lamps**
  The lamp for the swing direction of the louvre lights.
- **SWING LOUVRE Switch**
  Sets the swing louvre direction or locks it into position.

Front

Control panel



Back



Accessory

- **Silver ion sterilizing and deodorizing filter**

Hereafter referred to as simply “sliver ion filter.”

The silver ion filter is supplied with the unit at the time of purchase. Set before using the unit.

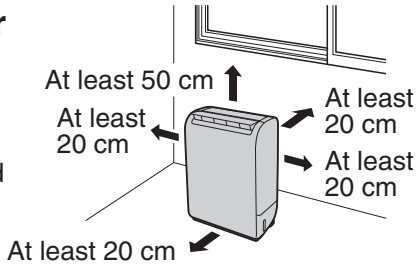
What is a silver ion sterilizing and deodorizing filter?

The silver ion sterilizing and deodorizing filter is a filter consisting of fibres containing special deodorant and silver ion anti-bacterial agent (anti-allergen, anti-virus, and sterilization).

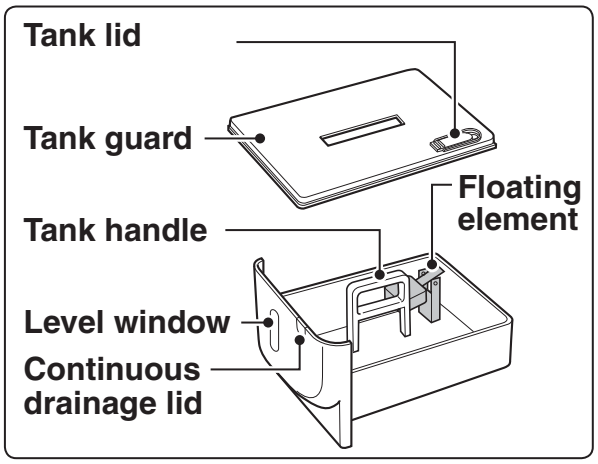
Cigarette smoke and toxins found in smoke, such as carbon monoxide, cannot be removed with this filter.

Installing your dehumidifier

Make sure to leave some space around the unit.

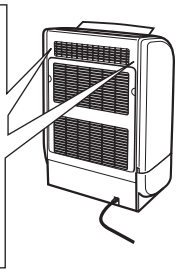


<Operating noise>
Use the unit on a mat or the like. This reduces vibration and noise. It also prevents leaving depressions on carpets, etc.



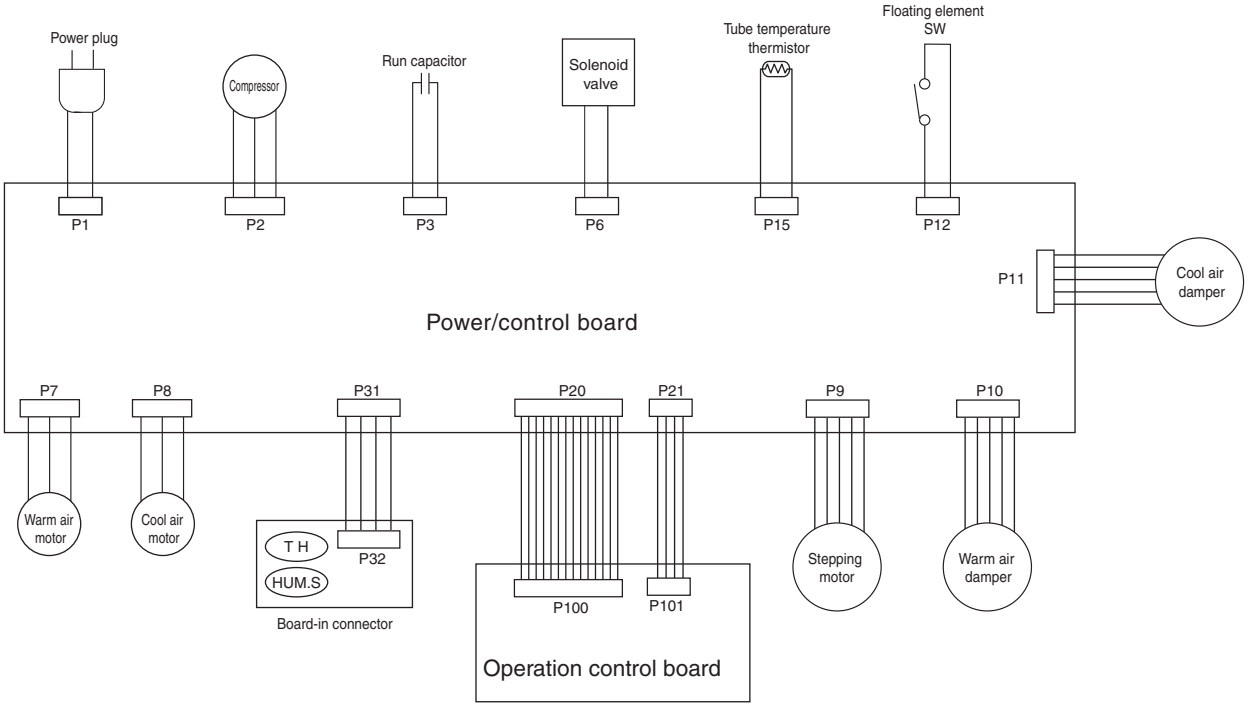
The water tank may contain water residue at time of purchase. This is from final product testing at the factory and is not due to a defect.

It is impossible to remove the back panel because the two spots shown are fastened with two special screws.
If the supply cord is damaged, it must be replaced by the manufacturer, its service agent in order to avoid a hazard.



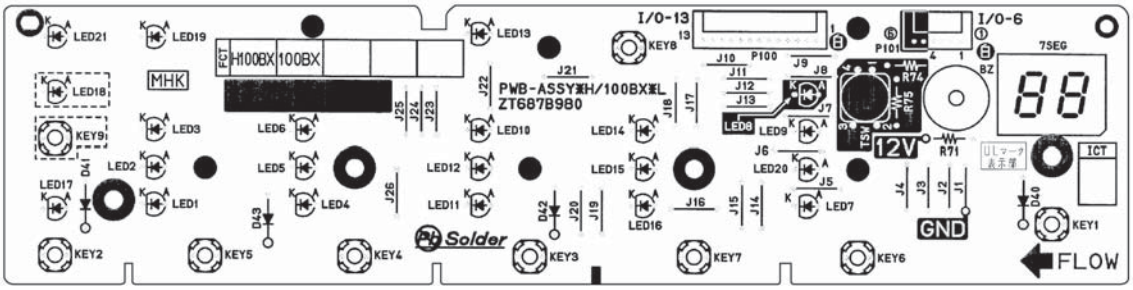
4. Wiring Diagram

1) Wiring Diagram

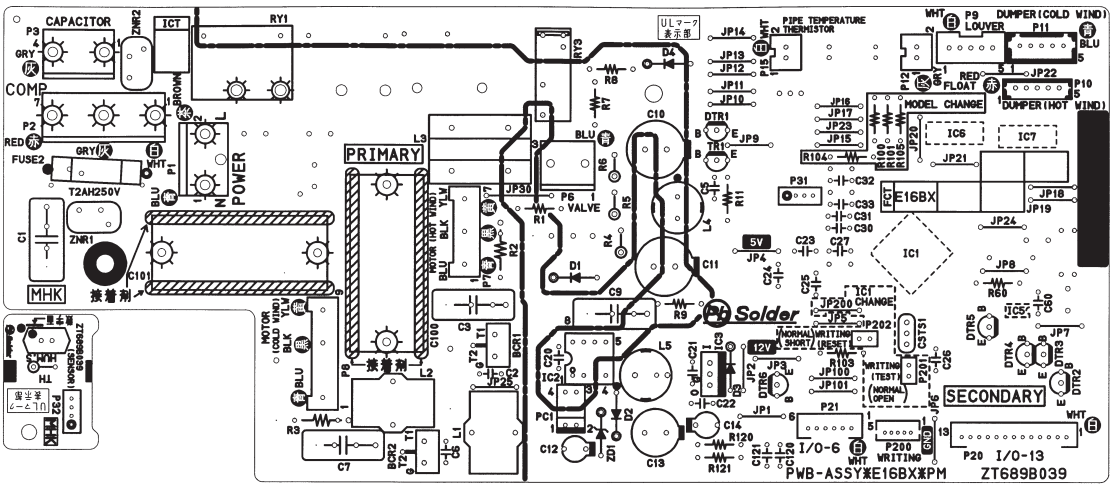


2) Board Diagram

[Operation control board]



[Power/control board]



5. Function

■ Function List

		Operation off	Operation mode								Child lock
			Laundry (High, Normal or Heavy)	Dehumidifying (Low, High or Auto)	Cool air (Low or Vary)	Warm air (Condensation prevention)	DEO-DRY	Drying inside	Tank full detection	Defrosting	
	Compressor	OFF	ON	ON	ON	ON	ON	—	OFF	ON	—
	Cool air fan	OFF	ON	ON	ON	ON	ON	—	OFF	OFF	—
	Warm air fan	OFF	ON	ON	ON	ON	ON	—	OFF	OFF	—
	Solenoid valve	OFF	OFF	OFF	OFF	OFF	OFF	—	OFF	ON	—
	Swing louvre	Closed	△	△	△	△	△	Upward	OFF	OFF	
	Damper	Fully closed	—	Dehumidifying	Cool air	Warm air	—	Dehumidifying	—	—	—
LED indicator	**Laundry**	×	☆	×	×	×	×	×	×	☆	—
	Dehumidifying	×	×	☆	×	×	×	×	×	☆	—
	Spot Air	×	×	×	☆	Warm air	×	×	×	☆	—
	DEO-DRY	×	×	×	×	×	O	×	×	☆	—
	Tank full	×	×	×	×	×	×	×	O	×	—
	Drying inside	×	×	×	×	×	×	◎	×	×	—
	Defrost	×	×	×	×	×	×	×	×	O	—
	Current Humidity Indicator	×	O	O	O	O	O	×	×	O	—
	Swing Louvre	×	△	△	△	△	△	×	×	×	—
Switch	**Power**	O	O	O	O	O	O	O	O	O	×
	Laundry	×	O	O	O	O	O	×	×	O	×
	Dehumidifying	×	O	O	O	O	O	×	×	O	×
	Spot Air	×	O	O	O	O	O	×	×	O	×
	DEO-DRY	×	O	O	O	O	O	×	×	O	×
	Swing Louvre	×	O	O	O	O	O	×	×	O	×
	Off timer	×	O	O	O	O	O	O	×	O	×
	Drying inside	O	O	O	O	O	O	×	×	O	×
	Child lock	O	O	O	O	O	O	×	O	O	O

O: Lit/Operable
◎: Flashing
×: Off/Stopped/Inoperable
△: Lit only when swing on
☆: LED lights at each operation mode
—: Varies by conditions

■ Laundry Operation

1. HIGH

① Control Summary

(a) Dehumidifying operates continuously regardless of the humidity.

(b) The constant compressor, cool air and warm air fans operate continuously.

Target part	Compressor	Cool air fan	Warm air fan	Solenoid valve	Louvre	Damper
Operation	ON	Rank control	Rank control	OFF	Operation mode	Dehumidifying position

② Laundry operations are disabled in the following cases.

(a) When the LAUNDRY switch is pressed, it switches to LAUNDRY (NORMAL) operation.

(b) When the DEHUMIDIFYING switch is pressed, it switches to the previously set DEHUMIDIFYING operation mode (DEHUMIDIFYING LOW, DEHUMIDIFYING HIGH or AUTO).

(c) When the SPOT AIR switch is pressed, it switches to the previously set SPOT AIR operation mode (COOL AIR LOW, COOL AIR VARY or WARM AIR).

(d) When the DEO-DRY switch is pressed, it switches to the DEO-DRY mode operation.

2. NORMAL or HEAVY

● NORMAL

Operating time			From operation start to 30 minutes					After 30 minutes or more				
Fan temperature table			0	1	2	3	Damper position	0	1	2	3	Damper position
Cool air fan	Average humidity	70%~80%	Rank7	Rank7	Rank7	Rank5	Dehumidifying	Rank7	Rank7	Rank7	Rank5	Dehumidifying
		60%~69%	Rank6	Rank7	Rank7	Rank5	Dehumidifying	Rank6	Rank7	Rank7	Rank5	Dehumidifying
		30%~59%	Rank6	Rank7	Rank7	Rank5	Dehumidifying	Rank6	Rank4	Rank4	Rank5	Warm air
Warm air fan	Average humidity	70%~80%	Rank6	Rank6	Rank6	Rank5	Dehumidifying	Rank6	Rank6	Rank6	Rank5	Dehumidifying
		60%~69%	Rank6	Rank6	Rank6	Rank5	Dehumidifying	Rank6	Rank6	Rank6	Rank5	Dehumidifying
		30%~59%	Rank6	Rank6	Rank6	Rank5	Dehumidifying	Rank4	Rank4	Rank4	Rank5	Warm air

● HEAVY

Operating time			From operation start to 30 minutes					After 30 minutes or more				
Fan temperature table			0	1	2	3	Damper position	0	1	2	3	Damper position
Cool air fan	Average humidity	70%~80%	Rank7	Rank7	Rank7	Rank5	Warm air	Rank7	Rank7	Rank7	Rank5	Warm air
		60%~69%	Rank6	Rank7	Rank7	Rank5	Warm air	Rank6	Rank7	Rank7	Rank5	Warm air
		30%~59%	Rank6	Rank7	Rank7	Rank5	Warm air	Rank6	Rank4	Rank4	Rank5	Warm air
Warm air fan	Average humidity	70%~80%	Rank6	Rank6	Rank6	Rank5	Warm air	Rank6	Rank6	Rank6	Rank5	Warm air
		60%~69%	Rank6	Rank6	Rank6	Rank5	Warm air	Rank6	Rank6	Rank6	Rank5	Warm air
		30%~59%	Rank6	Rank6	Rank6	Rank5	Warm air	Rank4	Rank4	Rank4	Rank5	Warm air

①Control Summary

(a) The dehumidifying time changes depending on the humidity, temperature and time.

(b) The time when the humidity changes is measured, and dehumidifying operation is automatically stopped when the laundry is dry.

(c) Normal

Target part	Compressor	Cool air fan	Warm air fan	Solenoid valve	Louvre	Damper
Operation	ON	Rank control	Rank control	OFF	Operation mode	Dehumidifying → Warm air

*The damper switches when humidity drops below 60%

(d) Heavy

Target part	Compressor	Cool air fan	Warm air fan	Solenoid valve	Louvre	Damper
Operation	ON	Rank control	Rank control	OFF	Operation mode	Warm air

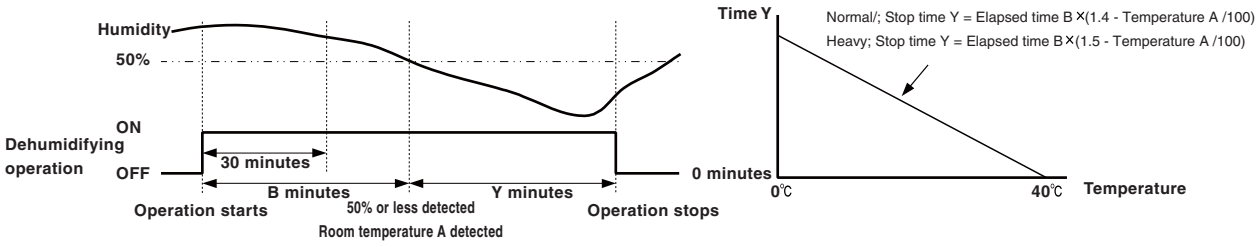
② Startup conditions
  (a) When operation is on while LAUNDRY operations are selected
  (b) When LAUNDRY operations are selected by operating the LAUNDRY switch

③ Stopping condition 1
  (a) Average humidity and temperature are measured 30 minutes after starting LAUNDRY operations, and every 10 minutes from then on.
      (Average humidity and temperature updates are performed at the same time as humidity measurements. Once every 15 seconds)
  (b) A shows the average temperature when the average humidity is 50% or less. (0~39˚C)
  (c) B shows the time elapsed until the average humidity is 50% or less after starting LAUNDRY operations. (B≧40)
  (d) After measuring A and B mentioned above, dehumidifying operations are then performed only for time Y calculated by the following equation.
      NORMAL Stop time Y = Elapsed time B × (1.4 - Temperature A /100)
      HEAVY Stop time Y = Elapsed time B × (1.5 - Temperature A /100)
  Example) The shortest stop time is as follows. (When the temperature = 30˚C)
      The shortest stop time Y = 40 × (1.4 - 30/100) = 44 minutes
      Therefore, the shortest time before stopping after starting LAUNDRY (NORMAL) operations is 84 minutes.

④ Stopping condition 2
  (a) After starting LAUNDRY operations X Hours elapsed (Where X is the E²PROM data modification range of integers form 1 to 12 where 12 is the default)
  (b) Stopping condition 2 is applied in the following situations.
  - After starting LAUNDRY operations, when humidity does not reach 50% or less after X hours have elapsed
  - When B+Y≧X hours under stopping condition 1

⑤ The time count during tank full detection is as follows.
  (a) Before detecting 50% or less for stopping condition 1 : Time count stop
  (b) After detecting 50% or less for stopping condition 1 : Time count continues
  (c) Stopping condition 2 : Time count stop

<Stopping Condition>



⑥ LAUNDRY operation mode is disabled in the following cases.
  (a) When the LAUNDRY switch is pressed, it switches to the following LAUNDRY operation mode.
  (b) When the DEHUMIDIFYING switch is pressed, it switches to the previously set DEHUMIDIFYING operation mode (Dehumidifying LOW, Dehumidifying HIGH or AUTO).
  (c) When the SPOT AIR switch is pressed, it switches to the previously set SPOT AIR operation mode (COOL AIR LOW, COOL AIR VARY or WARM AIR).
  (d) When the DEO-DRY switch is pressed, it switches to the DEO-DRY mode operation.

■ Dehumidifying operation

1. Automatic Operation

Temperature		←20˚C	22˚C→ ←27˚C	29˚C→ ←34˚C		36˚C→	
Humidity table		0	1	2		3	
Set humidity		60%	50%	60%	50%	60%	50%
Dehumidification		Dehumidifier mode	Dehumidifier mode	Circulate	Dehumidifier mode	Circulate	Dehumidifier mode
Humidity variation table 2	Cool air fan	Rank3	Rank3	To Dehumidifier mode	Rank3	To Dehumidifier mode	Rank5
	Warm air fan						
Humidity variation table 1	Cool air fan	Rank1	Rank1		Rank2		Rank5
	Warm air fan						
Humidity variation table 0	Cool air fan	Rank0 (Stop)	Rank0 (Stop)	Rank3	To Circulate mode	Rank5	To Circulate mode
	Warm air fan						

① Control Summary

(a) Adjusts humidity according to the room temperature for increased comfort.

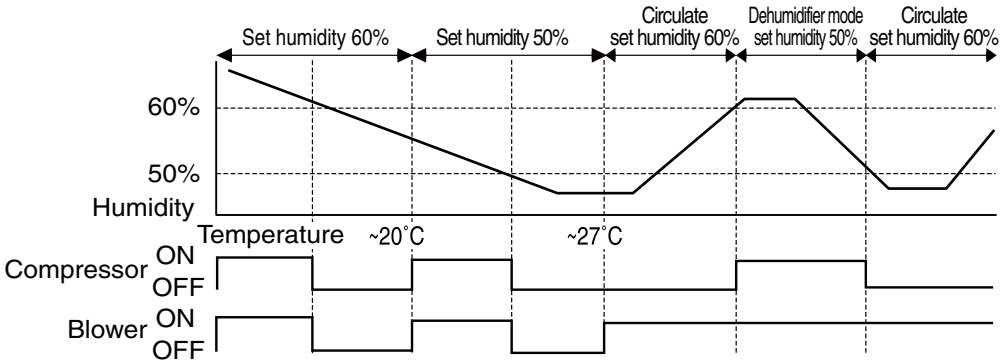
(b) When the temperature is high and the humidity is low, a circulator is activated that keeps the compressor off.

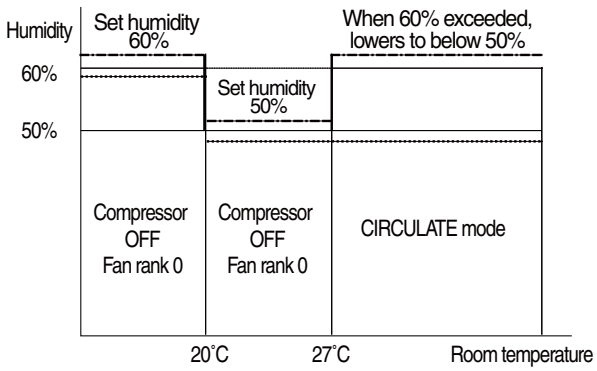
Target part	Compressor	Cool air fan	Warm air fan	Solenoid valve	Louvre	Damper
Operation	ON/OFF	Rank control	Rank control	OFF	Operation mode	Dehumidifying position

(c) The temperature table is switched approximately once every 60 seconds. This prevents the blower fan from turning on and off at the 3-minute restart for the coloured section in the table above (51 to 59%).

(d) When the room temperature is 29˚C or more (temperature rising) or 27˚C or more (temperature decreasing), the circulator operates when the humidity is below 50%.

(e) When the humidity rises above 60% during circulator operation, dehumidifying begins again when the dehumidifier is set to operate at 50%, and circulator operations begin once humidity drops below 50%.





② DEHUMIDIFYING AUTO operation mode is disabled in the following cases.

(a) When the LAUNDRY switch is pressed, it switches to the previously set laundry operation mode (HIGH, NORMAL or HEAVY).

(b) When the DEHUMIDIFYING switch is pressed, it switches to DEHUMIDIFYING LOW.

(c) When the SPOT AIR switch is pressed, it switches to the previously set spot air operation mode (COOL AIR/ LOW, COOL AIR/VARY or WARM AIR).

(d) When the DEO-DRY switch is pressed, it switches to the DEO-DRY mode operation.

2. Low Operation

① Control Summary

(a) Dehumidifying operates continuously regardless of the humidity.
(b) The constant compressor, cool air and warm air fans operate continuously.
(c) By reducing the rank of the blower fan compared to high operation, the dehumidification function is decreased during operation.(Creating low noise)

Target part	Compressor	Cool air fan	Warm air fan	Solenoid valve	Louvre	Damper
Operation	ON	Rank control	Rank control	OFF	Operation mode	Dehumidifying position

② Low operation is disabled in the following cases.

(a) When the LAUNDRY switch is pressed, it switches to the previously set LAUNDRY operation mode (HIGH, NORMAL or HEAVY).
(b) When the DEHUMIDIFYING switch is pressed, it switches to DEHUMIDIFYING HIGH operation.
(c) When the SPOT AIR switch is pressed, it switches to the previously set SPOT AIR operation mode (COOL AIR/LOW, COOL AIR/VARY or WARM AIR).
(d) When the DEO-DRY switch is pressed, it switches to the DEO-DRY mode operation.

3. High Operation

① Control Summary

(a) Dehumidifying operates continuously regardless of the humidity.
(b) The constant compressor, cool air and warm air fans operate continuously.
(c) By increasing the rank of the blower fan compared to low operation, the dehumidification function is increased during operation.

Target part	Compressor	Cool air fan	Warm air fan	Solenoid valve	Louvre	Damper
Operation	ON	Rank control	Rank control	OFF	Operation mode	Dehumidifying position

② High operation is disabled in the following cases.

(a) When the LAUNDRY switch is pressed, it switches to the previously set LAUNDRY operation mode (HIGH, NORMAL or HEAVY).
(b) When the DEHUMIDIFYING switch is pressed, it switches to dehumidifying auto operation.
(c) When the SPOT AIR switch is pressed, it switches to the previously set SPOT AIR operation mode (COOL AIR/LOW, COOL AIR/VARY or WARM AIR).
(d) When the DEO-DRY switch is pressed, it switches to the DEO-DRY mode operation.

■ SPOT AIR

1. Condensation prevention operation

① Control Summary

(a) Dehumidifying operates continuously regardless of the humidity.
(b) The constant compressor, cool air and warm air fans operate continuously.
(c) Perform warm air operation by placing the damper position in warm air mode.

Target part	Compressor	Cool air fan	Warm air fan	Solenoid valve	Louvre	Damper
Operation	ON	Rank control	Rank control	OFF	Operation mode	Warm Air Position

② Condensation prevention operation is disabled in the following cases.

(a) When the LAUNDRY switch is pressed, it switches to the previously set LAUNDRY operation mode (HIGH, NORMAL or HEAVY).
(b) When the DEHUMIDIFYING switch is pressed, it switches to the previously set DEHUMIDIFYING operation mode (DEHUMIDIFYING LOW, DEHUMIDIFYING HIGH or AUTO).
(c) When the SPOT AIR switch is pressed, it switches to COOL AIR/LOW operation.
(d) When the DEO-DRY switch is pressed, it switches to the DEO-DRY mode operation.

2. COOL AIR/LOW Operation

① Control Summary

(a) Dehumidifying operates continuously regardless of the humidity.
(b) The constant compressor, cool air and warm air fans operate continuously.
(c) Perform cool air operation by placing the damper position in cool air mode.

Target part	Compressor	Cool air fan	Warm air fan	Solenoid valve	Louvre	Damper
Operation	ON	Rank control	Rank control	OFF	Operation mode	Cool Air Position

② COOL AIR/LOW operation is disabled in the following cases.

(a) When the LAUNDRY switch is pressed, it switches to the previously set LAUNDRY operation mode (HIGH, NORMAL or HEAVY).
(b) When the DEHUMIDIFYING switch is pressed, it switches to the previously set DEHUMIDIFYING operation mode (DEHUMIDIFYING LOW, DEHUMIDIFYING HIGH or AUTO).
(c) When the SPOT AIR switch is pressed, it switches to COOL AIR/VARY operation.
(d) When the DEO-DRY switch is pressed, it switches to the DEO-DRY mode operation.

3. COOL AIR/VARY Operation

① Control Summary

(a) Dehumidifying operates continuously regardless of the humidity.
(b) The constant compressor, cool air and warm air fans operate continuously.
(c) Perform cool air operation by placing the damper position in cool air mode.
(d) Control fluctuations by changing the cool air fan rank level by time.

② Change the cool air/warm air fan rank as follows.

③ When the room temperature is 36˚C or more, the warm air fan rank is fixed at rank 5.

Step	Cool air fan	Warm air fan	Conditions for moving to next step
Step1	Rank1	Rank4	Operation after 5 seconds
Step2	Rank4	Rank4	Operation after 2 seconds
Step3	Rank8	Rank4	Operation after 5 seconds

④ The step switching order is as follows.

(a) Step 1 → 2 → 3 → 2 → 1 ...

⑤ COOL AIR/VARY operation is disabled in the following cases.

(a) When the LAUNDRY switch is pressed, it switches to the previously set LAUNDRY operation mode (HIGH, NORMAL or HEAVY).
(b) When the DEHUMIDIFYING switch is pressed, it switches to the previously set DEHUMIDIFYING operation mode (DEHUMIDIFYING LOW, DEHUMIDIFYING HIGH or AUTO).
(c) When the SPOT AIR switch is pressed, it switches to WARM AIR operation.
(d) When the DEO-DRY switch is pressed, it switches to the DEO-DRY mode operation.

■ DEO-DRY mode operation

① Control Summary

(a) Odors are removed by heating the clothes.
(b) The following operations are performed during clothes deodorization.

Target part	Compressor	Cool air fan	Warm air fan	Solenoid valve	Louvre	Damper
Operation	ON	Rank control	Rank control	OFF	Operation mode	Cool Air → Warm air

② Startup conditions

(a) When operation is on while DEO-DRY mode operation is selected
(b) When DEO-DRY mode operation is selected by operating the DEO-DRY switch
(c) When the DEO-DRY switch is pressed during clothes deodorization, DEO-DRY mode operation is restarted from the following step 1.

③ Operating Contents

(a) Clothes equipment operates in order of the following steps.
- Step 1 Cool air is blown through the clothes
- Step 2 Warm air is blown through the clothes

(b) Control panel operation during the above mentioned steps

Step	Cool air fan	Warm air fan	Compressor	Solenoid valve	Damper	Conditions for moving to next step
Step1	Rank4 (Room temperature 35˚C or less)	Rank4 (Room temperature 35˚C or less)	ON	OFF	Cool Air	Operates for 20 min.
Step2	Rank4 (Room temperature 35˚C or less)	Rank4 (Room temperature 35˚C or less)	ON	OFF	Warm air	After 40 minutes operation, DEO-DRY mode operation ends

④ DEO-DRY mode operation stopping condition

(a) Ends at the above mentioned step 2
(b) When the POWER switch is off

⑤ After DEO-DRY mode operation, it is disabled in the following cases.

(a) When the LAUNDRY switch is pressed, it switches to the previously set LAUNDRY operation mode (HIGH, NORMAL or HEAVY).
(b) When the DEHUMIDIFYING switch is pressed, it switches to the previously set DEHUMIDIFYING operation mode (DEHUMIDIFYING LOW, DEHUMIDIFYING HIGH or AUTO).
(c) When the SPOT AIR switch is pressed, it switches to the previously set SPOT AIR operation mode (COOL AIR/LOW, COOL AIR/VARY or WARM AIR).
(d) When the DEO-DRY switch is pressed, it restarts DEO-DRY mode operation from the first stage (step 1).

■ DRYING INSIDE operation

① Control Summary

(a) Prevents the growth of mildew by drying the moisture accumulated on the heat exchanger when the dehumidifier is off.

(b) DRYING INSIDE operation does not depend on a full water level to operate.

(c) The following operations are performed during DRYING INSIDE operation.

Target part	Compressor	Cool air fan	Warm air fan	Solenoid valve	Louvre	Damper
Operation	ON/OFF	Rank control	Rank control	ON/OFF	Stop at 90˚	Dehumidifying position

② DRYING INSIDE operation startup conditions

(a) Automatic operation mode: When you turn on automatic drying inside operation by pressing the DRYING INSIDE switch during operation, DRYING INSIDE operation begins automatically when any of the following conditions are met.

- When the POWER switch is not pressed
- The Off timer is reached
- When the DEO-DRY mode operation completes
- When INTELLIGENT LAUNDRY operation completes

(b) Manual operation mode: DRYING INSIDE operation begins when the DRYING INSIDE switch is pressed under the following conditions.

- When operation is off.

③ Operating details

(a) The following indications are displayed during DRYING INSIDE operation.

- LED indicator: Only the drying inside LED flashes. The others are off.

(b) DRYING INSIDE operates according to the following steps.

- Step 1: Moisture is allowed to drip from the heat exchanger. The louvre is positioned upwards at 90°.
- Step 2: Moisture on the heat exchanger is dried with air.
- Step 3: Moisture on the heat exchanger is dried with heat.
- Step 4: The heat exchanger is cooled if the temperature rises too high.
- Step 5: Internal humidity remaining in Step 4 is discharged.
  After completion, the louvre moves to the closed position.

(c) Step 3 is not performed when detecting a tube temperature that accompanies a microprocessor reset of 0˚C or less, or a room temperature of 0˚C or less, and jumps directly to Step 5.

(d) Mechanisms operated in the above mentioned steps

Step	Cool air fan	Warm air fan	Compressor	Solenoid valve	Conditions for moving to next step
Step1	Rank1	Rank1	OFF	OFF	5 minute operations.
Step2	Rank3	Rank0 (Stop)	OFF	OFF	25 minute operations.
Step3	Rank0 (Stop)	Rank0 (Stop)	ON	ON	45˚C or more detected in the tube temperature. Switches to step 5 for 20 minute operation
Step4	Rank0 (Stop)	Rank0 (Stop)	OFF	OFF	Step 3 operating time is a total of 20 minute operations
Step5	Rank1	Rank0 (Stop)	OFF	OFF	After operating for 10 minutes, dry inside operation ends

④ DRYING INSIDE operation stopping conditions

- Upon completion of Step 5 above
- The following switches terminate the DRYING INSIDE operation when pressed.

(a) The POWER switch

(c) The DRYING INSIDE switch

- The following operations are performed when DRYING INSIDE operation ends. (The louvre moves to the closed position)

Target part	Compressor	Cool air fan	Warm air fan	Solenoid valve	Louvre	Damper
Operation	OFF	Rank0 (Stop)	Rank0 (Stop)	OFF	CLOSE	Fully closed position

■ Blower fan rank

Cool air (EVA)

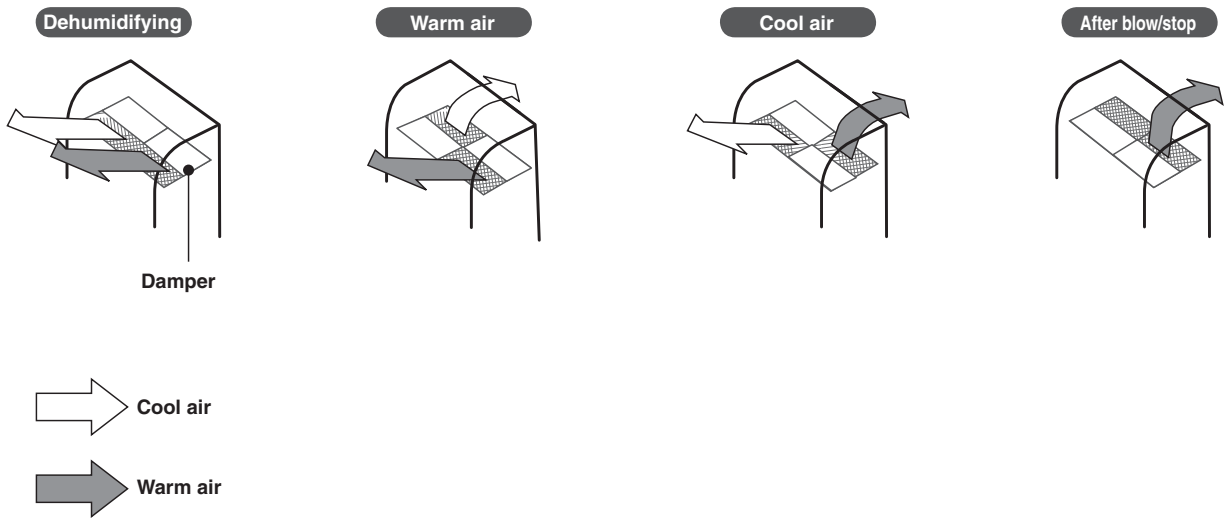
Fan rank	Air Amount [m³/min]	Rotation speed [rpm]
1	0.9	780
2	1.0	850
3	1.0	890
4	1.1	980
5	1.3	1,100
6	1.3	1,100
7	1.4	1,200
8	1.4	1,200

Warm air (COND)

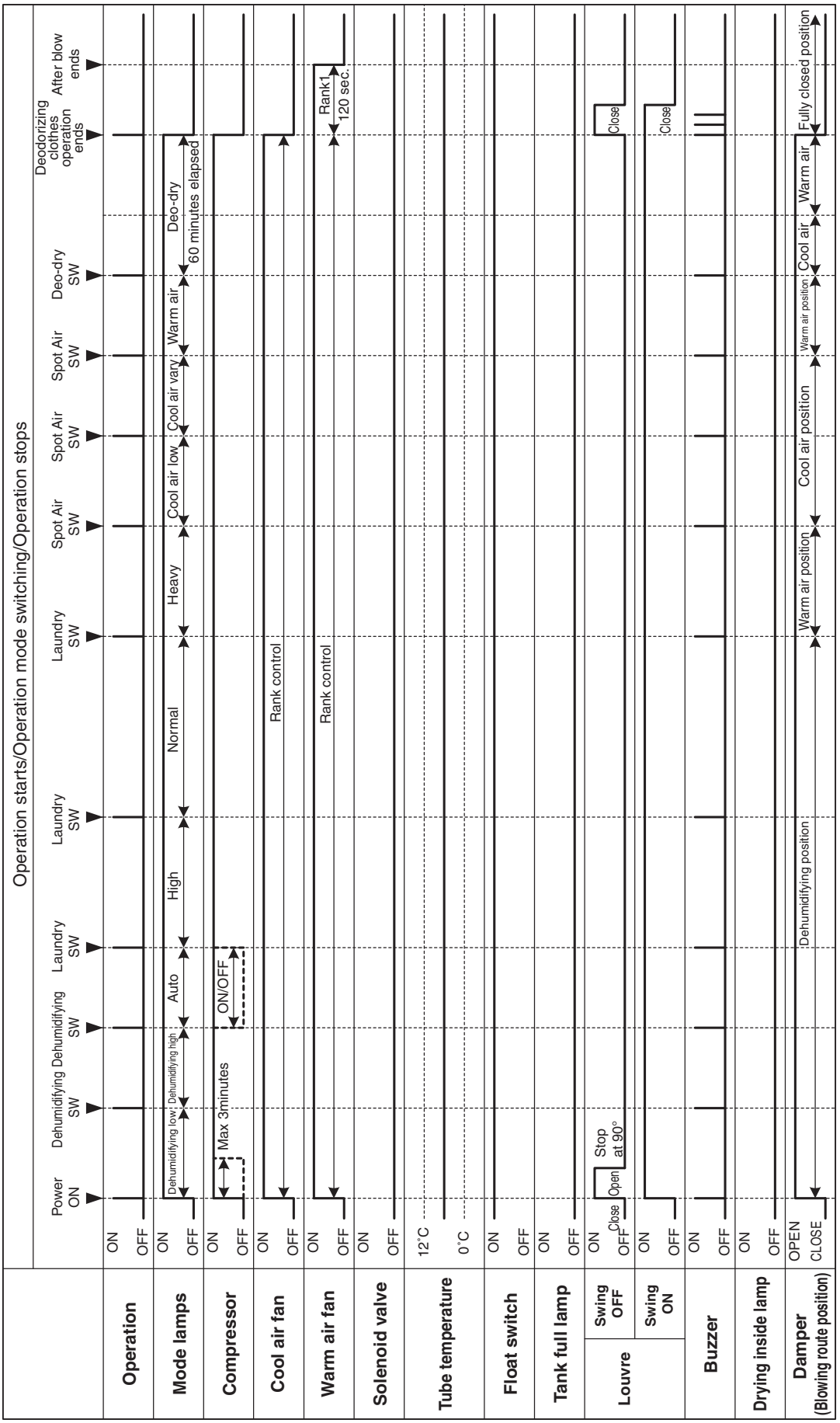
Fan rank	Air Amount [m³/min]	Rotation speed [rpm]
1	1.8	738
2	1.9	780
3	2.4	940
4	2.9	1,100
5	3.0	1,150
6	2.9	1,100
7	2.6	1,000
8	2.6	1,000

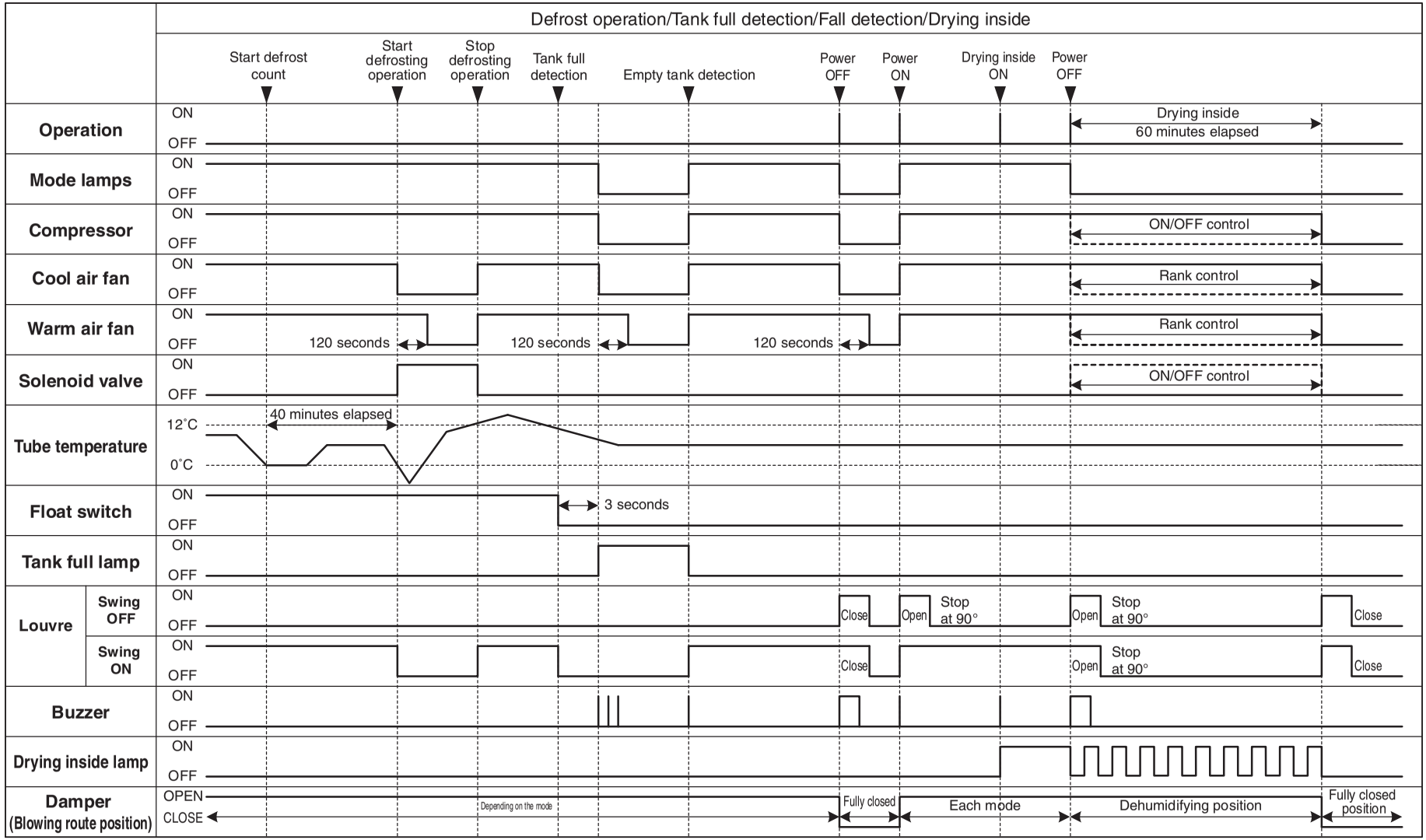
* The amount of air and the rotation speed values are standards.
The values change depending on differences in the motor and the filter etc.

■ Damper position

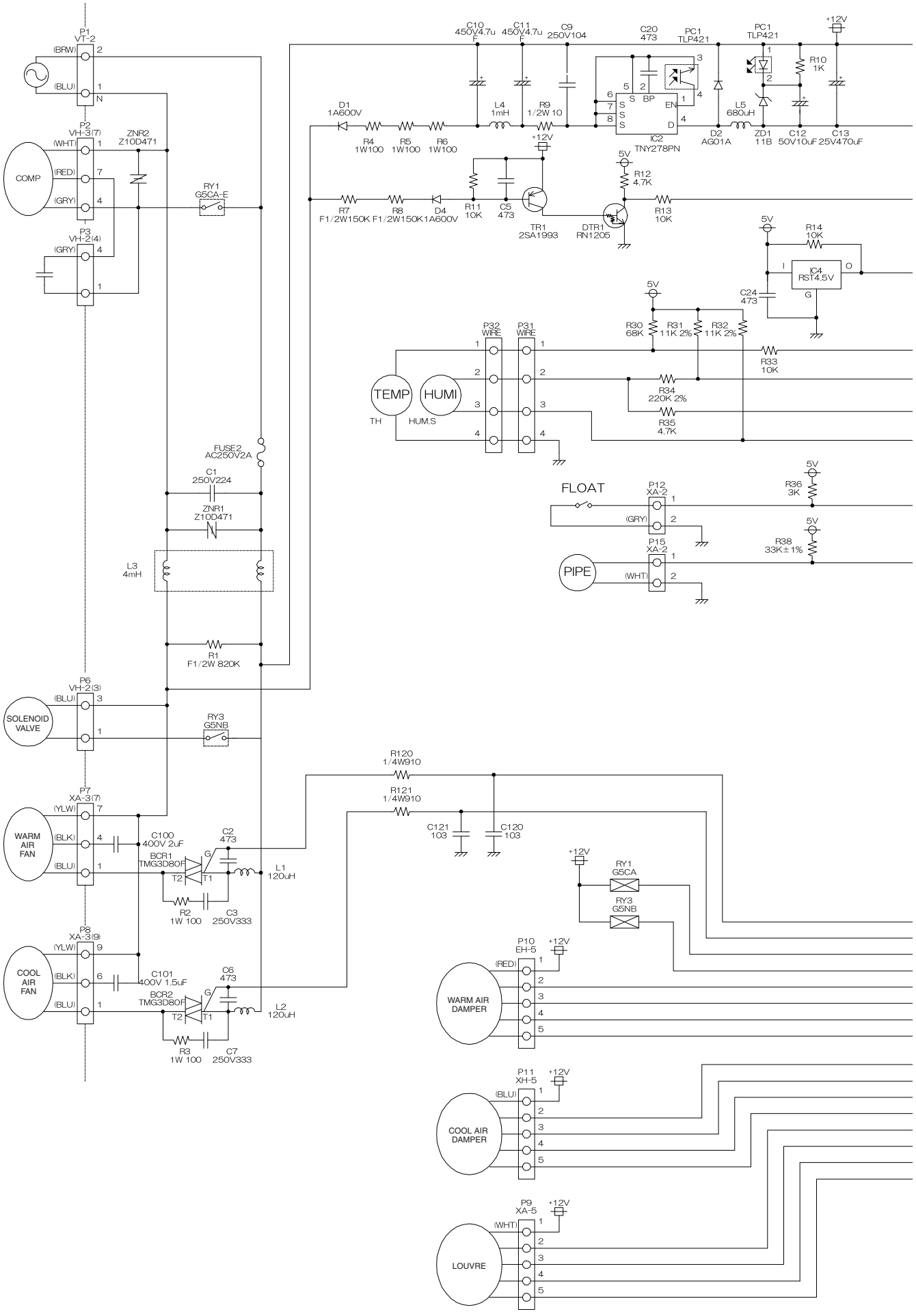


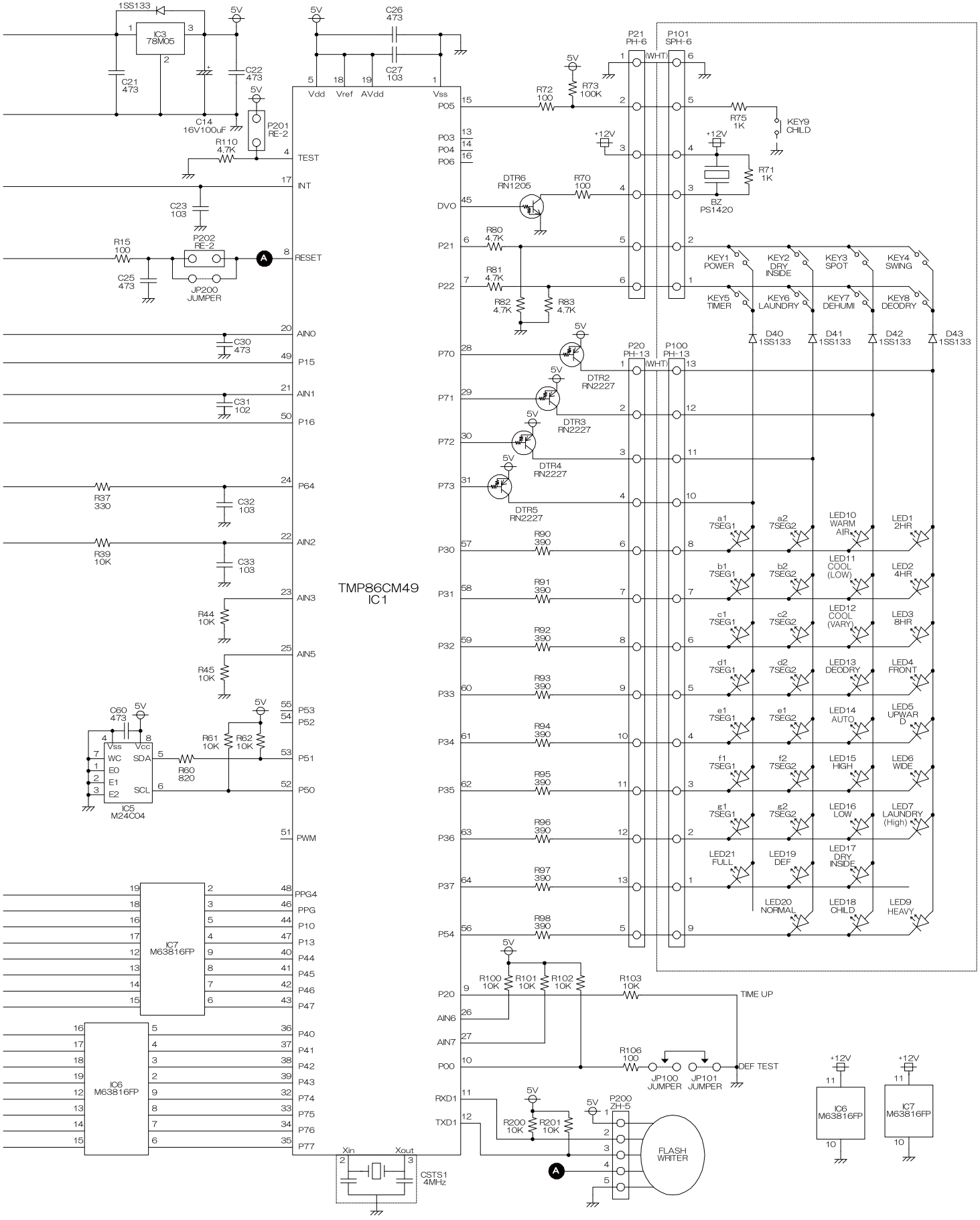
6. Timing Charts




Defrost operation/Tank full detection/Fall detection/Drying inside
Start defrost count
Start defrosting operation
Stop defrosting operation
Tank full detection
Empty tank detection
Power OFF
Power ON
Drying inside ON
Power OFF
Operation
Drying inside 60 minutes elapsed
Mode lamps
Compressor
ON/OFF control
Cool air fan
Rank control
Warm air fan
120 seconds
120 seconds
120 seconds
Rank control
Solenoid valve
ON/OFF control
Tube temperature
12˚C
0˚C
40 minutes elapsed
Float switch
3 seconds
Tank full lamp
Louvre
Swing OFF
Close
Open
Stop at 90°
Open
Stop at 90°
Close
Swing ON
Close
Open
Stop at 90°
Close
Buzzer
Drying inside lamp
Damper (Blowing route position)
OPEN
CLOSE
Depending on the mode
Fully closed
Each mode
Dehumidifying position
Fully closed position

7. Circuit Diagram



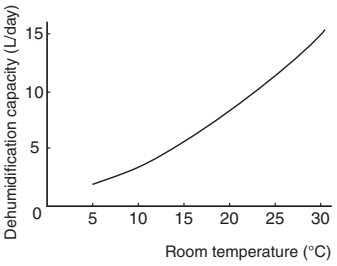

TMP86CM49
IC1
IC3
78M05
1SS133
C21
473
C22
473
C14
16V100uF
P201
RE-2
R110
4.7K
TEST
INT
C23
103
P202
RE-2
R15
100
C25
473
JP200
JUMPER
RESET
C26
473
C27
103
Vdd
Vref
AVdd
Vss
AIN0
C30
473
P15
AIN1
C31
102
P16
R37
330
C32
103
P64
AIN2
R39
10K
C33
103
AIN3
R44
10K
AIN5
R45
10K
C60
473
R61
10K
R62
10K
IC5
M24C04
WC
E0
E1
E2
SDA
SCL
R60
820
P53
P52
P51
P50
PWM
IC7
M63816FP
IC6
M63816FP
PPG4
PPG
P10
P13
P44
P45
P46
P47
P40
P41
P42
P43
P74
P75
P76
P77
Xin
Xout
CSTS1
4MHz
P05
P03
P04
P06
DVO
P21
P22
P70
P71
P72
P73
P30
P31
P32
P33
P34
P35
P36
P37
P54
P20
AIN6
AIN7
P00
RXD1
TXD1
R72
100
R73
100K
P21
PH-6
P101
SPH-6
R75
1K
KEY9
CHILD
R71
1K
BZ
PS1420
DTR6
RN1205
R70
100
R80
4.7K
R81
4.7K
R82
4.7K
R83
4.7K
KEY1
POWER
KEY2
DRY
INSIDE
KEY3
SPOT
KEY4
SWING
KEY5
TIMER
KEY6
LAUNDRY
KEY7
DEHUMI
KEY8
DEODRY
D40
1SS133
D41
1SS133
D42
1SS133
D43
1SS133
P20
PH-13
P100
PH-13
DTR2
RN2227
DTR3
RN2227
DTR4
RN2227
DTR5
RN2227
R90
390
R91
390
R92
390
R93
390
R94
390
R95
390
R96
390
R97
390
R98
390
a1
7SEG1
a2
7SEG2
LED10
WARM
AIR
LED1
2HR
b1
7SEG1
b2
7SEG2
LED11
COOL
(LOW)
LED2
4HR
c1
7SEG1
c2
7SEG2
LED12
COOL
(VARY)
LED3
8HR
d1
7SEG1
d2
7SEG2
LED13
DEODRY
LED4
FRONT
e1
7SEG1
e1
7SEG2
LED14
AUTO
LED5
UPWAR
D
f1
7SEG1
f2
7SEG2
LED15
HIGH
LED6
WIDE
g1
7SEG1
g2
7SEG2
LED16
LOW
LED7
LAUNDRY
(High)
LED21
FULL
LED19
DEF
LED17
DRY
INSIDE
LED20
NORMAL
LED18
CHILD
LED9
HEAVY
R100
10K
R101
10K
R102
10K
R103
10K
TIME UP
R106
100
JP100
JUMPER
JP101
JUMPER
DEF TEST
R200
10K
R201
10K
P200
ZH-5
FLASH
WRITER
+12V
IC6
M63816FP
IC7
M63816FP

8. Technical points

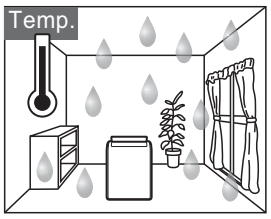
■ The amount of dehumidifying becomes less in winter.

When the temperature and humidity are low, the amount of water collected is decreased.
In winter, because the temperature is lower than in summer, the effect of the dehumidifier is greatly reduced as shown in the graph below.
Although only a little water collects in the tank, this is not a malfunction.

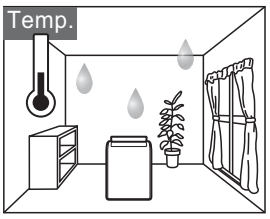
When the humidity is 80% and the value is HIGH



- The values shown on the graph were measured at constant temperature and humidity and do not reflect values obtained in actual usage conditions.



Summer (humidity)



Winter (dampness)

■ Points to be aware of

● Room temperature may rise 2-4°C during operation

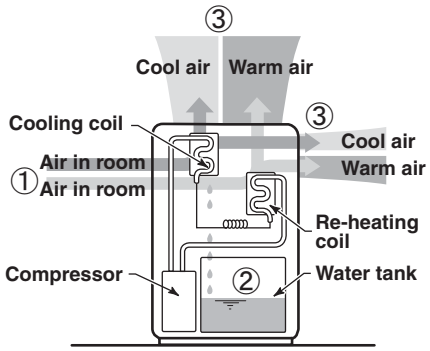
Unlike an air conditioner, the unit is not capable of cooling a whole room. Using the unit in a closed room will instead cause the room temperature to rise.

How does the dehumidifier work? <Heat Pump Cycle>

If you pour cold water into a cup, the air around it becomes cold, causing water droplets to form on the surface of the cup.
The dehumidifier takes advantage of this phenomenon to remove moisture from the air.

① The unit draws air from the room, cools it with its cooling coil, causing the moisture to transform into water droplets.
② The water droplets fall into the water tank.
③ **Air passed through the re-heating coil is heated and blown out from an air outlet.**
(The air outlet varies depending on the operating mode.)

The humidity of the room is thus reduced by repeating steps ①, ② and ③.



■Tips on Drying Laundry

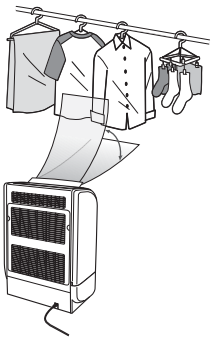
How to Hang Clothes

- **Fully extend the clothes to remove any wrinkles.**
- **Leave space between clothes to allow air to easily pass through them (Guideline for spacing: Approximately 5 cm)**
- **Hang any difficult to dry items in positions where wind can easily come into contact with them.**

Clothes placed close together will take time to dry.

<Drying takes a long time in the following cases>

- When there are a lot of clothes
- When the room temperature is low
  The drying time required at a low temperature (approximately 10°C) is around twice that at a normal temperature (approximately 20°C).
- When the room is large

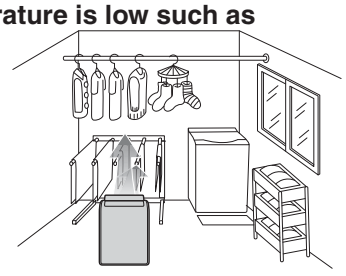


How to Blow Air at Clothes

- **Use the swing louvre to blow air onto all of the clothes**
  Clothes places in locations that are not exposed to the wind will take time to dry.
- **When there are a lot of clothes**
  Change the hanging positions of the clothes during drying to ensure air is blown onto all of the clothes.

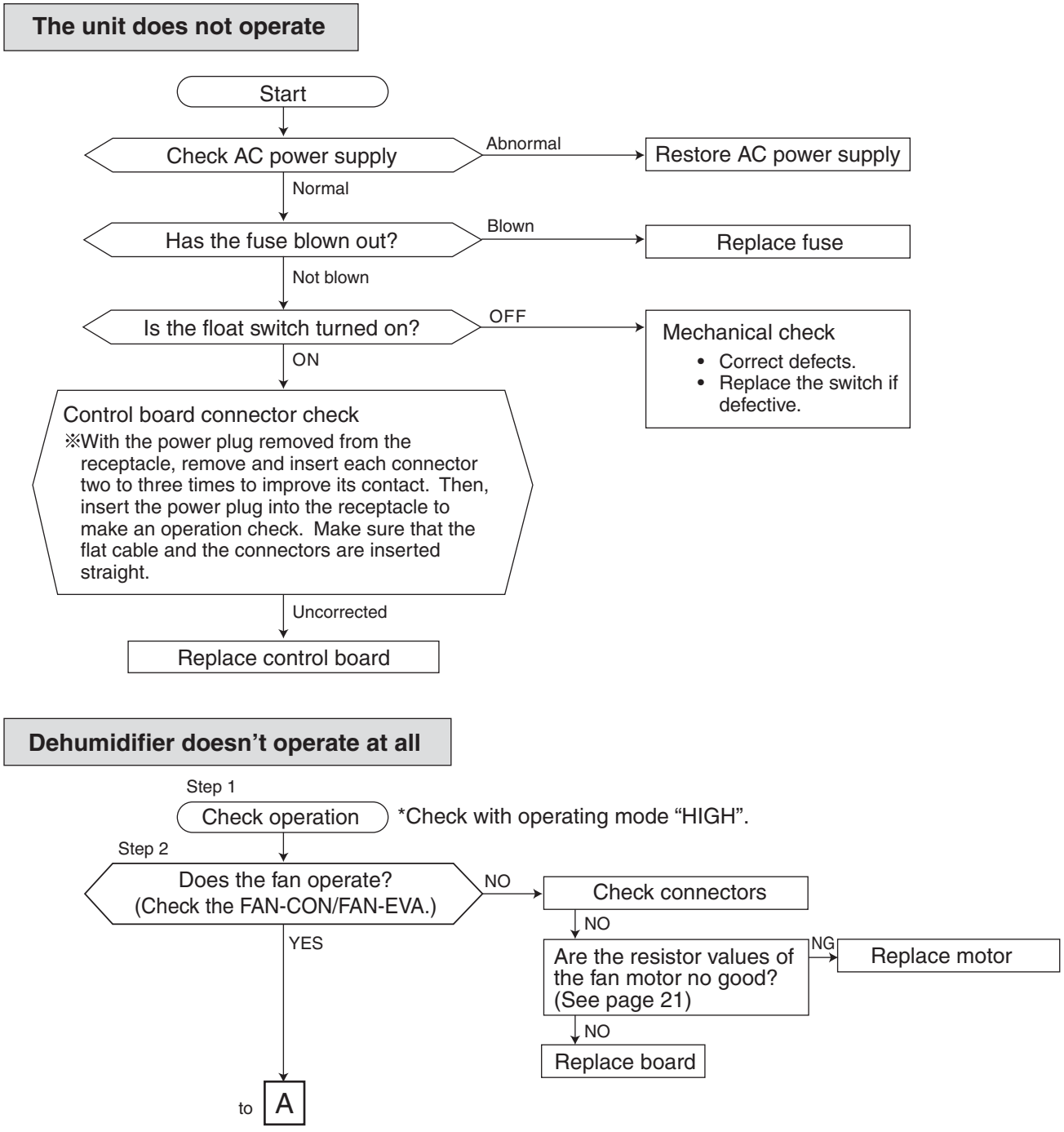
About the Room for Hanging Clothes

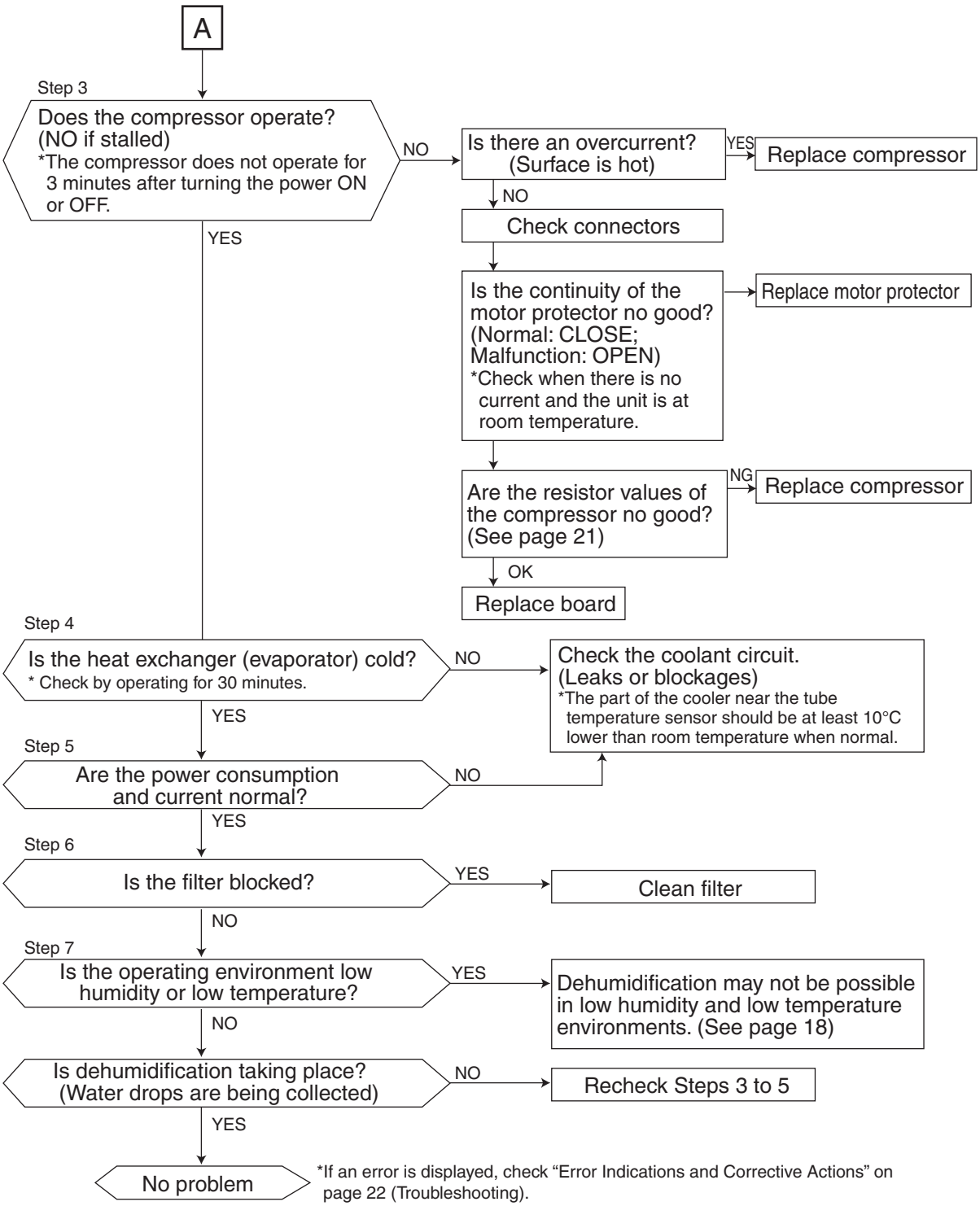
- **Hanging the clothes in a small enclosed room and dehumidifying.** It allows for very efficient dehumidifying and quick drying.
- **When the room temperature is low such as during the winter**
  Drying becomes easier if you also use a heater to raise the room temperature to approximately 16°C or more.



9. Troubleshooting Procedure

1) Troubleshooting flowchart




A
Step 3
Does the compressor operate? (NO if stalled)
*The compressor does not operate for 3 minutes after turning the power ON or OFF.
NO
Is there an overcurrent? (Surface is hot)
YES
Replace compressor
NO
Check connectors
YES
Is the continuity of the motor protector no good? (Normal: CLOSE; Malfunction: OPEN)
*Check when there is no current and the unit is at room temperature.
Replace motor protector
Are the resistor values of the compressor no good? (See page 21)
NG
Replace compressor
OK
Replace board
Step 4
Is the heat exchanger (evaporator) cold?
* Check by operating for 30 minutes.
NO
Check the coolant circuit. (Leaks or blockages)
*The part of the cooler near the tube temperature sensor should be at least 10°C lower than room temperature when normal.
YES
Step 5
Are the power consumption and current normal?
NO
YES
Step 6
Is the filter blocked?
YES
Clean filter
NO
Step 7
Is the operating environment low humidity or low temperature?
YES
Dehumidification may not be possible in low humidity and low temperature environments. (See page 18)
NO
Is dehumidification taking place? (Water drops are being collected)
NO
Recheck Steps 3 to 5
YES
No problem
*If an error is displayed, check “Error Indications and Corrective Actions” on page 22 (Troubleshooting).

* After checking the following points, execute the refrigeration circuit adjustment to a “Do not dehumidify” call.

(1) “The filter is clogged” or “There is dust stuck to it”. Action: Clean.

(2) The system requirements are “Low temperature and low humidity”. → Action: See the explanation in the graph on page 18 (this guide).
Or try moving it to a kitchen, bathroom, or changing room and checking it there.

(3) Check that it is not in an operating mode such as, “Intelligent Laundry Mode”, “Automatic Operation”, or “Clothes Deodorant” that stops automatically.
→ Action: Check if dehumidifying is in “HIGH” operation.

2) Key Component Check Procedures

<table>
<tr><th>Component name</th><th>Testing procedure</th></tr>
<tr><td>Tube temperature sensing thermistor P15</td><td>Detach the connector and measure the resistance using a multimeter (component temperature: 10°C to 30°C).
<table>
<tr><td>Normal</td><td>Abnormal</td></tr>
<tr><td>Between P15 pins: 8.0kΩ to 20.8kΩ</td><td>Open or shorted</td></tr>
</table></td></tr>
<tr><td>Room temperature and humidity sensor board</td><td>Detach the connector and measure the resistance using a multimeter (component temperature: 10°C to 30°C).
Normal: 47 to 51kΩ (between P31 pins 3 and 4)
Abnormal: Open or shorted</td></tr>
<tr><td>Compressor</td><td>With the connector detached, measure the resistance across the terminals using a multimeter (winding temperature: 10°C to 30°C).
<table>
<tr><td></td><td>Normal</td><td>Abnormal</td></tr>
<tr><td>C-R side</td><td>25Ω ~ 27Ω</td><td rowspan="2">Open or shorted</td></tr>
<tr><td>C-S side</td><td>67Ω ~ 74Ω</td></tr>
</table></td></tr>
<tr><td>Fan motor (2)
• Warm air motor
• Cool air motor</td><td>Measure the resistance between terminals using a multimeter (winding temperature: 10°C to 30°C).
<table>
<tr><td rowspan="2"></td><td colspan="2">Normal</td><td rowspan="2">Abnormal</td></tr>
<tr><td>Cool air (EVA)</td><td>Warm air (COND)</td></tr>
<tr><td>Yellow-Blue</td><td>425Ω ~ 462Ω</td><td>216Ω ~ 236Ω</td><td rowspan="2">Open or shorted</td></tr>
<tr><td>Black-Blue</td><td>288Ω ~ 315Ω</td><td>219Ω ~ 238Ω</td></tr>
</table></td></tr>
<tr><td>Solenoid coil</td><td>Measure the resistance between terminals using a multimeter (component temperature: 10°C to 30°C).
<table>
<tr><td>Normal</td><td>Abnormal</td></tr>
<tr><td>2.6kΩ ~ 2.9kΩ</td><td>Open or shorted</td></tr>
</table></td></tr>
</table>

3) Error Indications and Corrective Actions

Indication (Timer display)	Error (failure)	Corrective action
E0	P31, 32 connector out of position Room temperature thermistor blowout	Check the P31, 32 connection. Check the room temperature and humidity sensor board.
E1	Room temperature thermistor short Room temperature and humidity sensor board failure	
E7	P15 connector out of position Tube temperature thermistor blowout	Check the P15 connection. Check the tube temperature thermistor.
E8	Tube temperature thermistor short Tube temperature sensor failure	
A1	Microprocessor failure RAM error	Replace the main board.
A2	Frequency determination error	Check the outlet and 220-240V power supply (Replace the main and power/control board)
A6	Watch dog error	Main control board replacement (Replace the main control board)
P4	Compressor malfunction	Check blowing performance. Check the tube temperature thermistor. Check the compressor operating noise.

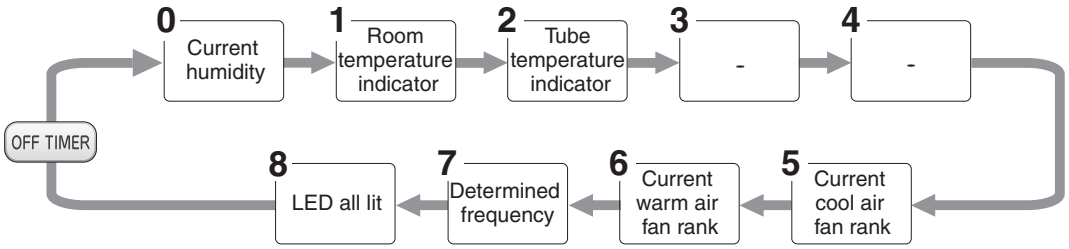
4) Self diagnostic test program

(1) Deactivating 3-minute restart prevention lock

- Start Press the LAUNDRY switch and the DEHUMIDIFYING switch 3 times together when the power is off. Turn on the power within 2 seconds.
- Functions
  - ① Deactivates 3-minute restart prevention lock (immediate operation)
  - ② Operation mode is set to dehumidifying high operation, cool air/warm air fan fixed at rank 6 (max. air flow)
  - ③ When an E^2PROM error is detected, the tank full and defrost LED are lit
  - ④ Power off for 3 seconds, and the solenoid valve turn off
  - ⑤ When the operation mode is changed, the fan rank is fixed and the E^2PROM error display is released
- End Turn the power off → The solenoid valve functions for approximately 3 seconds.

(2) LED monitor display

- Start — Press the LAUNDRY switch and the DEHUMIDIFYING switch 4 times together when the power is off. Turn on the power within 2 seconds.
- Mode select — Use the OFF timer switch to change the diagnostic modes (0 to 8).
- End — Turn the power off.



Display example

	0	1	2	3	4	5	6	7	8
Display item	Current humidity	Room temperature indicator	Tube temperature indicator	—	—	Current cool air fan rank	Current warm air fan rank	Determined frequency	LED all lit
Display section example	48	28	12	00	00	02	02	50	88
Actual number	48%	28˚C	12˚C	—	—	Rank 2	Rank 2	50Hz	88

Note 1. Continue to 8 all lit if you cannot understand the current display number.
2. There is no display item for "3" and "4" in diagnostic mode.

10. Troubleshooting

● **For the symptoms listed below, refer to the remedies listed right.**

Symptom	Cause/Remedy
The unit blows warm air	● Air passed through the re-heating coil is warm. ● Unlike an air conditioner, the unit is not capable of cooling a whole room. Using the unit in a closed room will instead cause the room temperature to rise. ● When the unit is set to COOL AIR/VARY or COOL AIR/LOW, warm air is blown from the back air outlet.
The unit does not blow warm air	● Is operation being performed with the unit set to other than (SPOT AIR) WARM AIR? → Perform operation with the unit set to (SPOT AIR) WARM AIR.
The unit does not blow cool air	● Is operation being performed with the unit set to other than (SPOT AIR) COOL AIR/VARY or COOL AIR/LOW? → Perform operation with the unit set to (SPOT AIR) COOL AIR/VARY or COOL AIR/LOW.
Water does not collect in the water tank (minimal dehumidifying results)	● Check to see if the temperature/humidity is low. Low room temperature/humidity reduces dehumidifying effectiveness. This is not a malfunction.
The unit does not operate (No air comes out and the louvre does not swing) **The unit stops**	● Check to see if the power cord is correctly plugged. → Plug the power cord properly into the power socket. ● Check to see if anything is blocking the air intake or outlet. → Remove the obstruction.
	● Is operation being performed with the unit set to (DEHUMIDIFYING) AUTO? → The unit is automatically switching dehumidifying, blowing, and stopping.
	● Check to see if the silver ion filter is clogged. → Clean according to the maintenance procedures.
Stops after a short time	● Is operation being performed with the unit set to (LAUNDRY) NORMAL or HEAVY? → If the room temperature is approximately 5°C or less, operation stops after approximately 1 hour. If the room temperature is low, it becomes difficult for water to evaporate from clothes because the humidity does not change. ● Is operation being performed with the unit set to DEO-DRY? → This operation is designed to end after approximately 1 hour.
□ FULL **Indicates**	● Check to see if the water tank is full. → Empty the water tank and return it to its original position. ● Check to see if the water tank is inserted properly. → Adjust the position of the water tank.
□ DEFROST **Indicates**	● Check to see if the unit is in defrosting mode. The unit activates defrosting mode when the room temperature drops below 15°C. The dehumidifier and blower functions stop during defrosting.
The unit continues to operate even though it is turned off	● Even if the POWER switch is turned off, the blower fan rotates for approximately 2 minutes to prevent the temperature inside the unit from rising. Wait until the blower fan stops before removing the power plug. ● Is the unit set to drying inside mode? This function activates automatically after ending operations.
The humidity level does not drop easily	● Check to see if the room is not too large. ● Check to see if the exits to the room are open. → Refrain from opening doors/windows during operation. ● Check to see if steam producing appliances such as kerosene heaters are on in the vicinity.
The hygrometer reading on the unit differs from other hygrometers in the room	● Hygrometer readings differ from place to place even if in the same room. Use the unit humidity reading as an estimate.
The louvre does not move as set	● Press the Swing louvre switch again.
The water tank contains liquid or white water residue	● The residue is from final product testing at the factory. It is not a result of a malfunction.
There is black residue on the inside of the water tank and lid.	● The residue is from debris in the air. → Clean according to the maintenance procedures.

Symptom		Cause/Remedy
The unit makes noises	The operating sound is loud	● Since the unit uses two fans and two motors in addition to the cool air function, the operating sound becomes loud compared to models without a cool air function. This is not a malfunction. If the operating sound bothers you, use the unit set to (DEHUMIDIFYING) LOW.
	The operating noise is loud/ reverberates	● Check to see if the unit is on a slope or uneven surface. → Move to a sturdy even surface. ● Check to see if the silver ion filter is clogged. → Clean according to the maintenance procedures. ● Operating the unit in small rooms or in tight spaces sometimes causes the sound to reverberate. → Place a mat underneath the unit.
	The operating sound suddenly increases in volume	● The sound increases when the compressor activates (approximately 3 minutes after turning on the unit or during automatic operation ((DEHUMIDIFYING) AUTO)). ● Is operation being performed with the unit set to (DEHUMIDIFYING) LOW? → When the room temperature becomes 35°C or more, operation is performed with the same amount of wind as HIGH in order to protect the compressor.
	The wind sound changes in volume	● The volume of the sound differs depending on the angle of the louvre.
	The unit produces a simmering sound	● This is the sound of the refrigerant. The sound can be heard while the refrigerant stabilizes after the unit turns on, changes modes, or stops.
	The unit makes a gentle clinking or rattling sound	● This is the sound of the blowing route changing. The unit sometimes makes sounds when the operating mode changes or the blowing route changes during operation.
	The unit produces a buzz that sounds intermittently (or the compressor does not activate)	● This is the sound of the compressor. In modes that monitor the humidity level or during drying inside, the compressor operates intermittently causing the sound to be heard occasionally. The compressor does not activate after turning the unit off, or for 3 minutes after plugging the unit into a power socket. (This is to protect the compressor from damage.)
The unit produces an odour	When first used	● The heat converter heats rapidly causing an odour. This is not a malfunction.
	• During internal drying • During deodorizing clothes operation	● The moisture expelled from inside the unit may smell due to odorants that were not caught by the silver ion filter dissolving in the water. This is not a malfunction.

● **Error message (Humidity indicator)**

Digital display	Cause/Remedy
A2 appears in the CURRENT HUMIDITY indicator	● Check to see if the power cord is plugged into the power socket properly. → Plug the power cord into the power socket properly.
P4 appears in the CURRENT HUMIDITY indicator	● Check to see if anything is blocking the air outlet. → Remove the obstruction, and plug the power cord into the power socket again. ● Check to see if the silver ion filter is clogged. → Clean according to the maintenance procedures.
A1 A6 E0-E8 appears in the CURRENT HUMIDITY indicator	● **Malfunction** → **Take note of error message, unplug the power cord, and contact the place of purchase.**

If the symptoms persist even after following the prescribed remedies, or the error message does not disappear, unplug the power cord, and contact the place of purchase.

Maintenance

Do not use detergents, cleaning agents for heat exchange equipment, abrasive powders, chemically treated dusters, gasoline, benzene, thinners or other solvents, as they can damage the unit or the water tank, which may result in leakage.

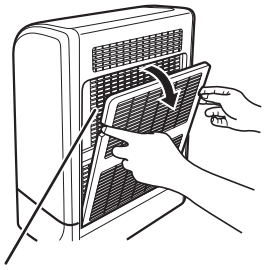
Once Every Two Weeks

Silver Ion Filter, Air Intake, and Sensor

Clogging with dust and the like reduces the effectiveness of the dehumidifying. Clean once every two weeks.

<Preparation>
Press the POWER switch to turn off the power, wait until the blower fan stops rotating (approximately 2 minutes) before unplugging the power cord.

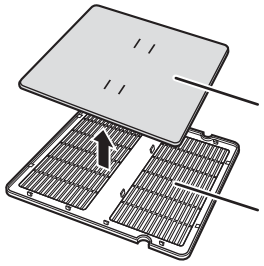
1 Remove the filter cover.

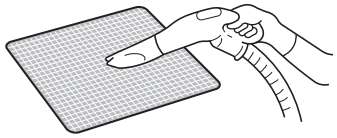


Pull the filter cover toward you, and then remove it.

Performance is unaffected even if the metal fins inside the main unit are slightly bent.

2 Remove the silver ion filter from the filter cover, and then clean the filter.





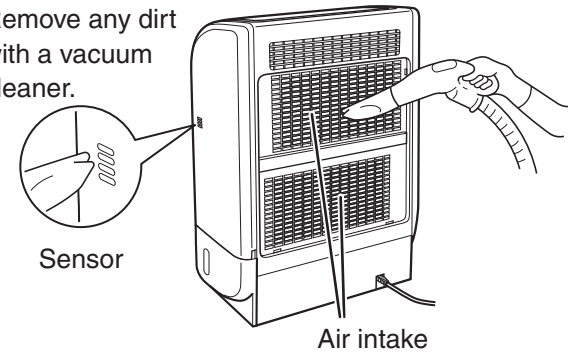
Remove any dust from the white net surface with the nozzle of a vacuum cleaner.

Do not use a nozzle with a brush. This may damage the filter.

<When the filter is very dirty>
Soak the filter in water.

3 Clean the air intake and sensor.

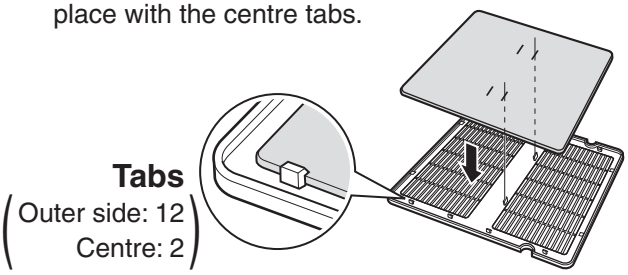
Remove any dirt with a vacuum cleaner.



Do not use a nozzle with a brush. This may damage the filter.

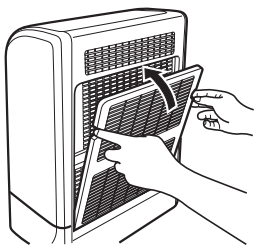
4 Set the silver ion filter into the filter cover.

Align the white net surface with the filter cover, set the filter inside the tabs, and fix the filter in place with the centre tabs.



Make sure the silver ion filter is attached to the unit. If it is not, fine dust will enter inside the unit and cause a malfunction.

5 Set the filter cover.



Insert the bottom tabs into the unit until they click.

Once Every Three Months

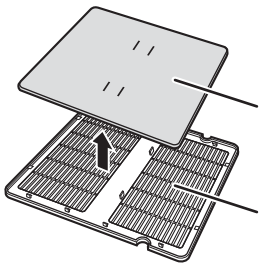
Silver Ion Filter (Soak in Water)

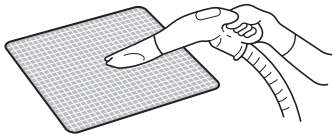
Soaking the silver ion filter in water enables you to remove fine dust and odor from the silver ion filter.

<Preparation>
Press the POWER switch to turn off the power, wait until the blower fan stops rotating (approximately 2 minutes) before unplugging the power cord.

1 Remove the filter cover.

2 Remove the silver ion filter from the filter cover, and then clean the filter.

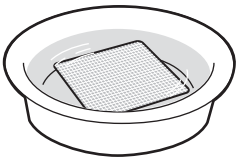




Remove any dust from the white net surface with the nozzle of a vacuum cleaner.

Do not use a nozzle with a brush. This may damage the filter.

3 Soak the silver ion filter in water.

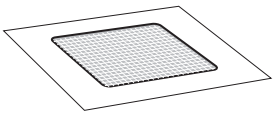


Soak in cool to lukewarm water for about 30 minutes.

Do not use detergent or hot water. Also, do not use a brush or the like to scrub the filter or rub the filter while soaking. This may damage the filter.

- Any yellow or dark stains may remain on the filter, but should not affect performance.
- The filter can be soaked for a total of eight times. After that, replace with a new filter.

4 Dry the silver ion filter well.



Dry the filter on a even surface in the shade.

Do not hang with pegs or the like. This may damage the filter.
Do not use the filter while wet.

5 Set the silver ion filter into the filter cover.

6 Set the filter cover.

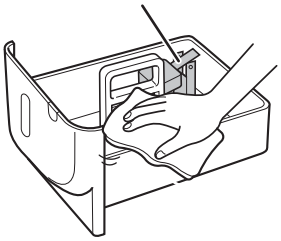
Maintenance (cont.)

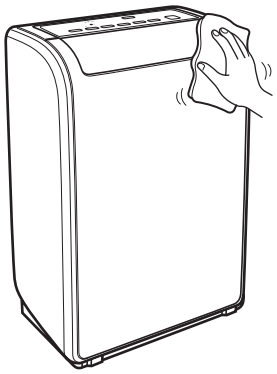
Cleaning

Water tank · Main unit

Wipe with a soft cloth.

Floating element
Do not remove or dismantle.





- The unit draws in dust present in the air, and this may cause the tank to **gradually become dirty**. If the dirt does not come off easily, wash with cold or warm water, then wipe with a soft, dry cloth.
- Mildew may form in the tank unless kept clean.
- After cleaning the tank, attach the tank guard and then set the tank in the unit.

Replacement Parts

The silver ion filter becomes depleted over time.
Replace it when necessary.

Replacing the silver ion filter

Although the silver ion filter lasts roughly 2 years, replace it when:

- **You have soaked the filter 8 times.**
- **The silver ion filter has turned brown due to cigarette smoke or black with dust.**

Filter life differs on usage and environmental conditions

Remove the filter cover from the unit, and replace the silver ion filter.

12. Disassembly and Reassembly Hints

1. Removing the water tank

Step 1) Pull out the tank.

2. Removing the filter cover and rear case

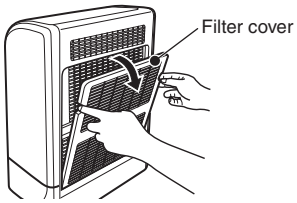
Step 1) Hold the filter cover tabs, pull the filter cover toward you, and remove. (See Figure 1)

2) Remove the special screws (2), left and right case setscrews (right:2, left:1) and the rear case setscrews (2). (See Pic. 1)

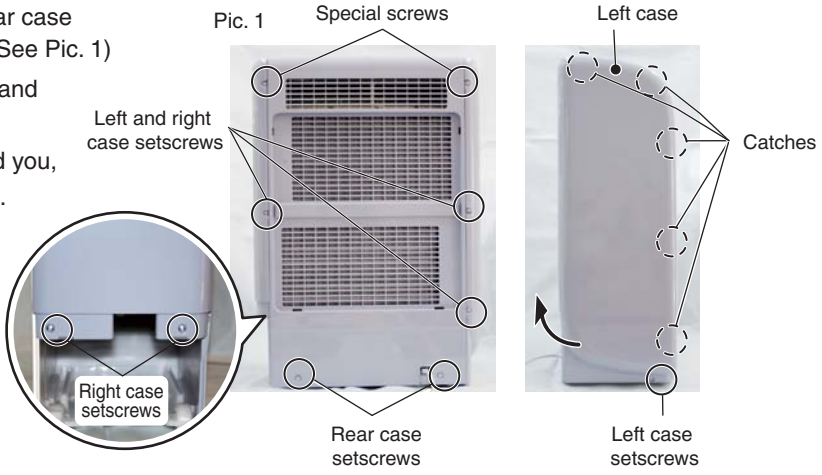
3) Detach the catches (5 points on the right and left), and remove the right and left cases.

4) Pull the lower side of the rear case toward you, and detach the catches on the upper side.

Figure 1



Pic. 1



3. Removing the front case

Step 1) Remove the water tank and the left and right cases following the steps in sections 1 and 2 above.

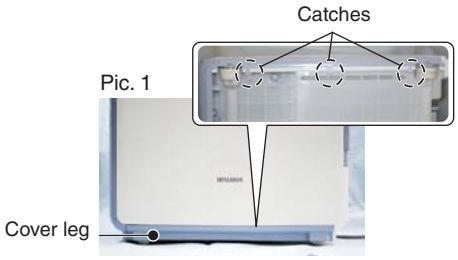
2) Detach the catches (3 points) on the cover legs, and remove the cover legs. (See Pic. 1)

3) Remove the front case setscrews (3). (See Pic. 2)

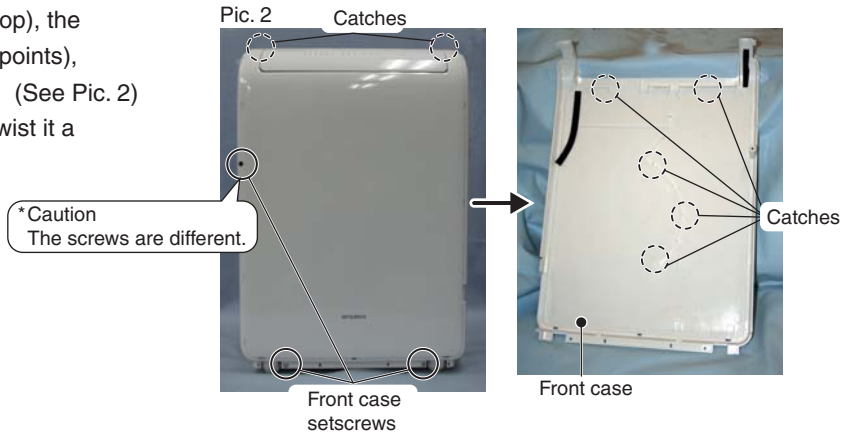
4) Detach the catches on the front case (top), the net frame (2 points), and the casing (3 points), and remove the front case. (See Pic. 2)

Caution) Because the catch is inside the case, twist it a little to the left when removing.

Pic. 1



Pic. 2



4. Removing the control board

<<Removing the power supply board>>

Step 1) Remove the water tank, the left and right cases, the rear case, and the front case following the steps in sections 1 to 3 above.

2) Remove each connector (P20, P21, P11, P10, and P9).

3) Remove the top case setscrews (4), and remove the top case. (See Pic. 1)

4) Remove the operation control board setscrews (4), and remove the operation control board. (See Pic. 2)

* When installing, fix the lead wire to the clamping circuit (3 points).

<<Removing the stepping motor for the louvre>>

Step 1) Remove the stepping motor setscrews (2), and remove the stepping motor for the louvre. (See Pic. 3)

<<Removing the power/control board>>

Step 1) Remove the water tank and the right case following the steps in sections 1 to 3 above.

2) Detach the catches (5 points) on the cover box, and remove the cover box by.

3) Remove each connector (P1, P2, P5, P6, P7, P8, P10, P11, P12, P15, P16, and P17) from the power/control board. (See Pic. 4 and 5)

4) Remove the power/control board holder setscrews (2), and remove the power/control board holder.

5) Remove the power/control board holder setscrew (1), and remove the power/control board.

<<Removing the net>>

Step 1) Remove the net setscrew (1), and remove the net. (See Pic. 6 and 7)

* When reassembling, make sure that the spacer is set securely.

<<Removing the damper assembly>>

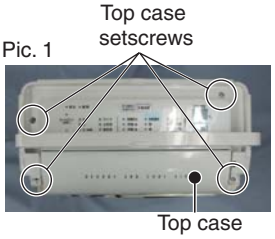
Step 1) Detach the catches (3 points) on the damper frame T.

2) Raise it from the rear to remove. (See Pic. 8)

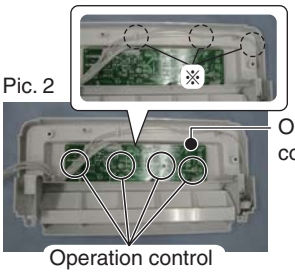
3) Remove the damper motor setscrew (2 points each), and remove the damper motor. (See Pic. 9)

4) Remove the damper frame setscrews (2), and remove the damper frame U. (See Pic. 10)

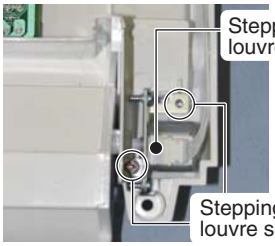
Pic. 1



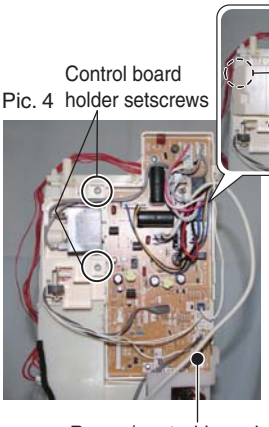
Pic. 2



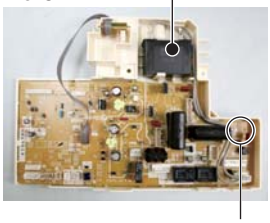
Pic. 3



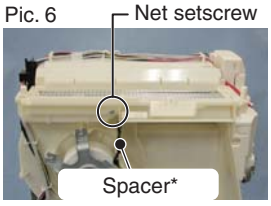
Pic. 4



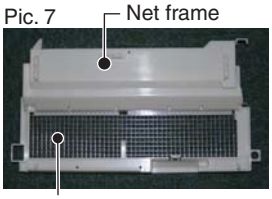
Pic. 5



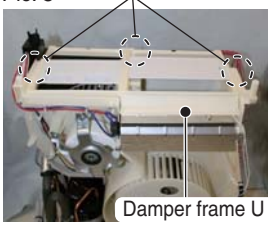
Pic. 6

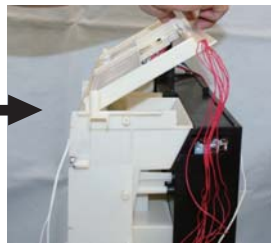


Pic. 7

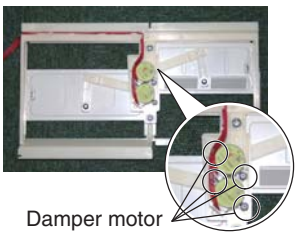


Pic. 8

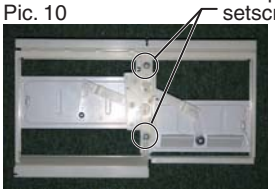




Pic. 9



Pic. 10



5. Removing the blower fan assembly

Step 1) Remove the water tank, the side case, the front case, and the rear case following the steps in sections 1 to 4 above.

2) Remove each connector (8) from the power/control board, and remove the power/control board box assembly.

3) Detach the catch on the drain EVA, and remove the fan assembly. (See Pic. 1)

*1) When installing the blower fan assembly, fit the rib of the drain EVA into the gap in the blower fan, and finally push down the blower fan assembly using the catch on the drain EVA.

<<Removing the cool air motor>>

Step 1) Remove the fan cover setscrews (5), and remove the fan cover. (See Pic. 2)

2) Remove the cool air fan locknut, the plate fan, and the cool air fan.

3) Remove the cool air motor holding plate and the setscrews (4). (See Pic. 3)

4) Remove the cool air motor. (See Pic. 5)

<<Removing the warm air motor>>

Step 1) Remove the warm air fan locknut, and then remove the warm air fan. (See Pic. 4)

2) Separate the warm air motor lead wire from the motor case.

3) Remove the warm air motor holding plate the setscrews (4). (See Pic. 5)

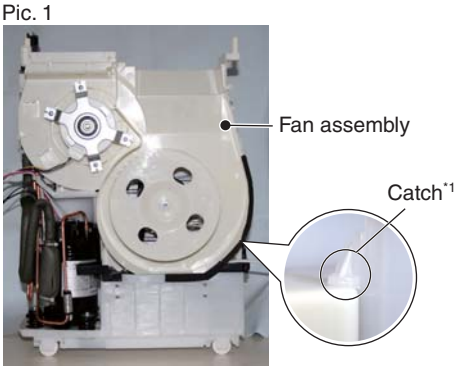
4) Remove the warm air motor.

<<Removing the float switch>>

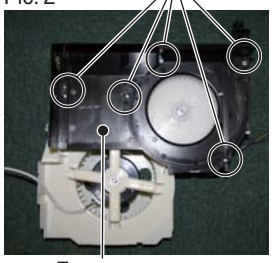
Step 1) Remove the float switch attached to the drain pan. (See Pic. 6)

Repairable parts	Blower fan Blower motor Float switch Heat exchanger (radiator, refrigerator)

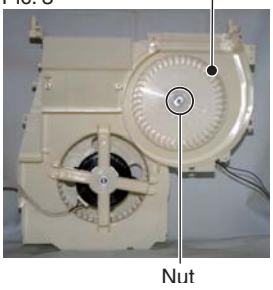
Pic. 1



Pic. 2

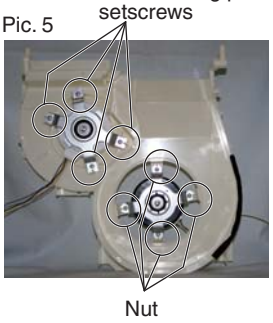


Pic. 3



Pic. 4

Pic. 5



Pic. 6

6. Removing the drain pan assembly

Step 1) Remove the water tank, the front case, the rear case, the left and right cases, and the blower fan assembly following the steps in sections 1 to 5 above. (See Pic. 1)

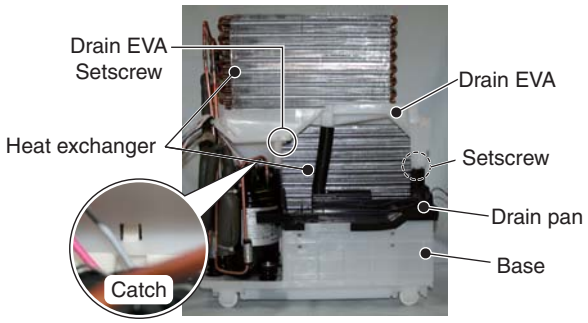
2) Remove the drain EVA setscrews (2).

3) Detach the catches (right, left, and center: 1 point each) on the drain pan and the drain EVA, and remove the drain EVA while lifting the heat exchanger from the main unit.

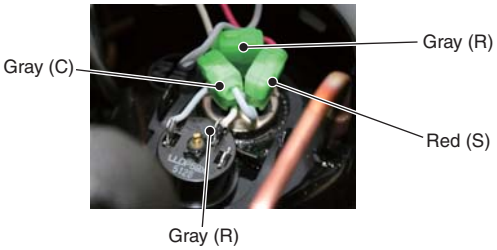
4) Detach the catches (4 points) in the drain pan from the base, and remove the drain pan while lifting the heat exchanger from the main unit.

Repairable parts	Compressor

Pic. 1



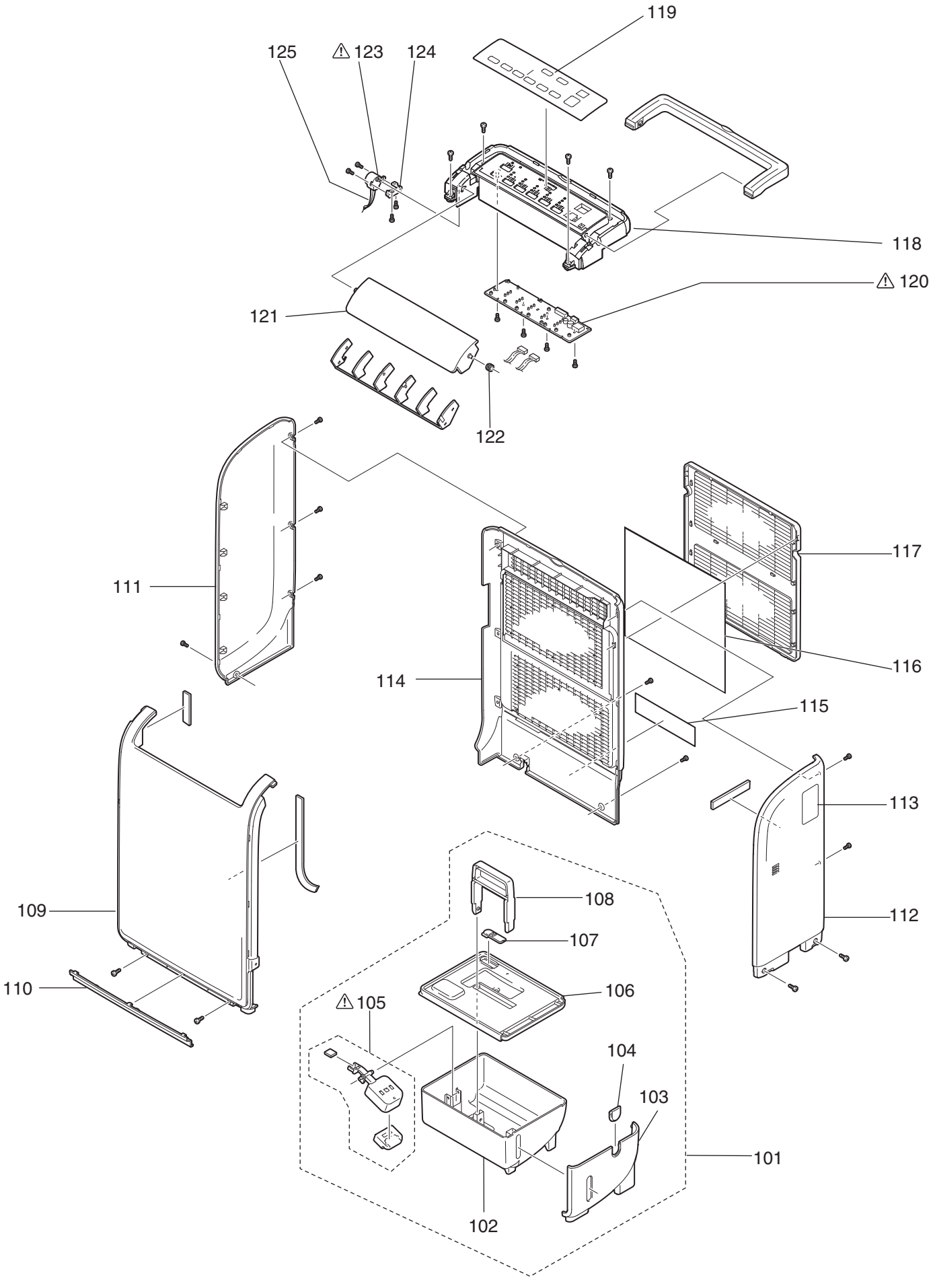
<Compressor wiring diagram>



13. Parts Catalog

MJ-E15BX-S1-IT Model Structural Disassembly Diagram

[Case and tank structural relationship]



Model MJ-E15BX-S1-IT Parts List [Case and tank structural relationship]

Notes:

1. Circled reference numbers indicate performance parts.
2. New parts and the parts that are used only with these models lack compatibility.
3. Those parts that are marked by ⚠ and ▭ are of critical importance for sustaining safety and performance. Use specified parts at replacement.
4. When ordering parts without part numbers, use the design number. The order may take a while to process.

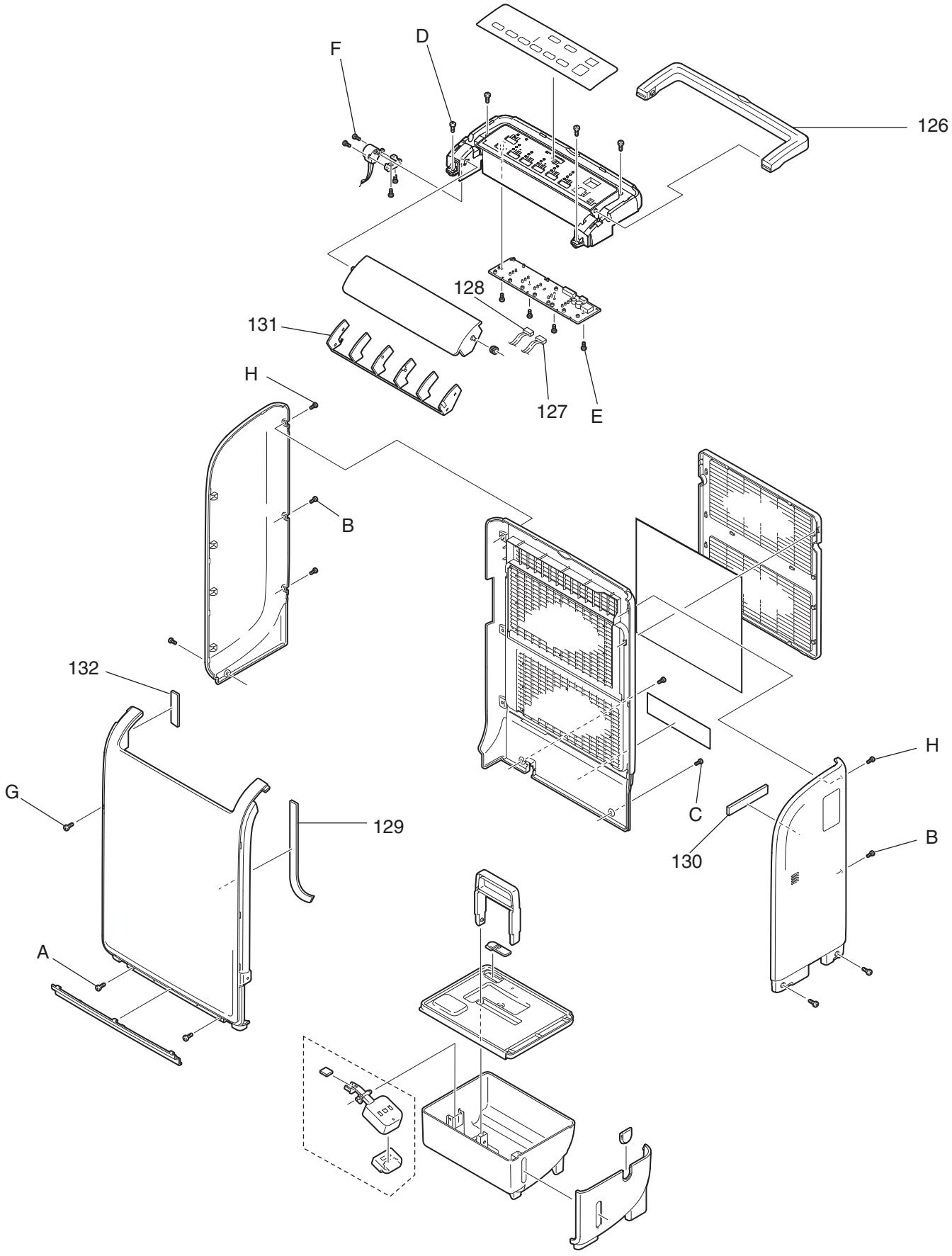
	Part Name	Part No.	Safety Part	Pc/1 unit	Compatibility/Miscellaneous
101	TANK∗ASSY-H100CX	M22 B46 345		1	
102	TANK∗AX	M22 B39 345		1	
103	COVER-TANK∗CX	M22 B46 320		1	
104	COVER-TANK-S∗CX	M22 B46 321		1	
(105)	FLOAT∗ASSY-CX	M22 B46 340	⚠	1	
106	LID-TANK∗AX	M22 B39 330		1	
107	LID-TANK-S∗AX	M22 B39 330S		1	
108	HANDLE-TANK∗AX	M22 B39 180T		1	
109	CASE-F-ASSY∗BX	M22 B43 310F		1	
110	COVER-LEG∗CX-T	M22 B46 320C		1	
111	PANEL-L∗CX	M22 B46 440L		1	
112	PANEL-R∗CX	M22 B46 440R		1	
113	ESC-PL∗E15BX-A1	M22 C67 468		1	
114	CASE-R-ASSY∗H100CX	M22 B46 310		1	
115	NAME-PLATE∗E15BX-S1	M22 C72 450		1	(New)
116	FILTER MJPR-10AXFT	M48 5C5 822		1	expendable item
117	COVER-FILTER∗CX	M22 B46 320F		1	
118	CASE-T∗100BX-W	M22 B44 311		1	
119	ESC-SW∗E15BX-H	M22 C64 440		1	
(120)	PCA∗MJ-E16BX∗LED	M22 C64 689L	⚠	1	
121	LOUVER-T∗100BX	M22 B44 405		1	
122	SUPPORT-LOUVER∗S(X)	M22 B15 036		1	
(123)	STEPPING-MOTOR∗AX	M22 B39 620S	⚠	1	
124	MOUNT MOTOR-S∗AX	M22 B39 261		1	
125	LEAD WIRE S/M∗AX	-		1	

∗1. If the part is out of production, you may be required to use a common part.

∗2. Parts found installed in products may have a different part number from service parts. However, there should be no difference inperformance and can be installed.

MJ-E15BX-S1-IT Model Structural Disassembly Diagram

[Case and tank structural relationship]



Model MJ-E15BX-S1-IT Parts List [Case and tank structural relationship]

Notes:

1. Circled reference numbers indicate performance parts.
2. New parts and the parts that are used only with these models lack compatibility.
3. Those parts that are marked by ⚠ and ▭ are of critical importance for sustaining safety and performance. Use specified parts at replacement.
4. When ordering parts without part numbers, use the design number. The order may take a while to process.

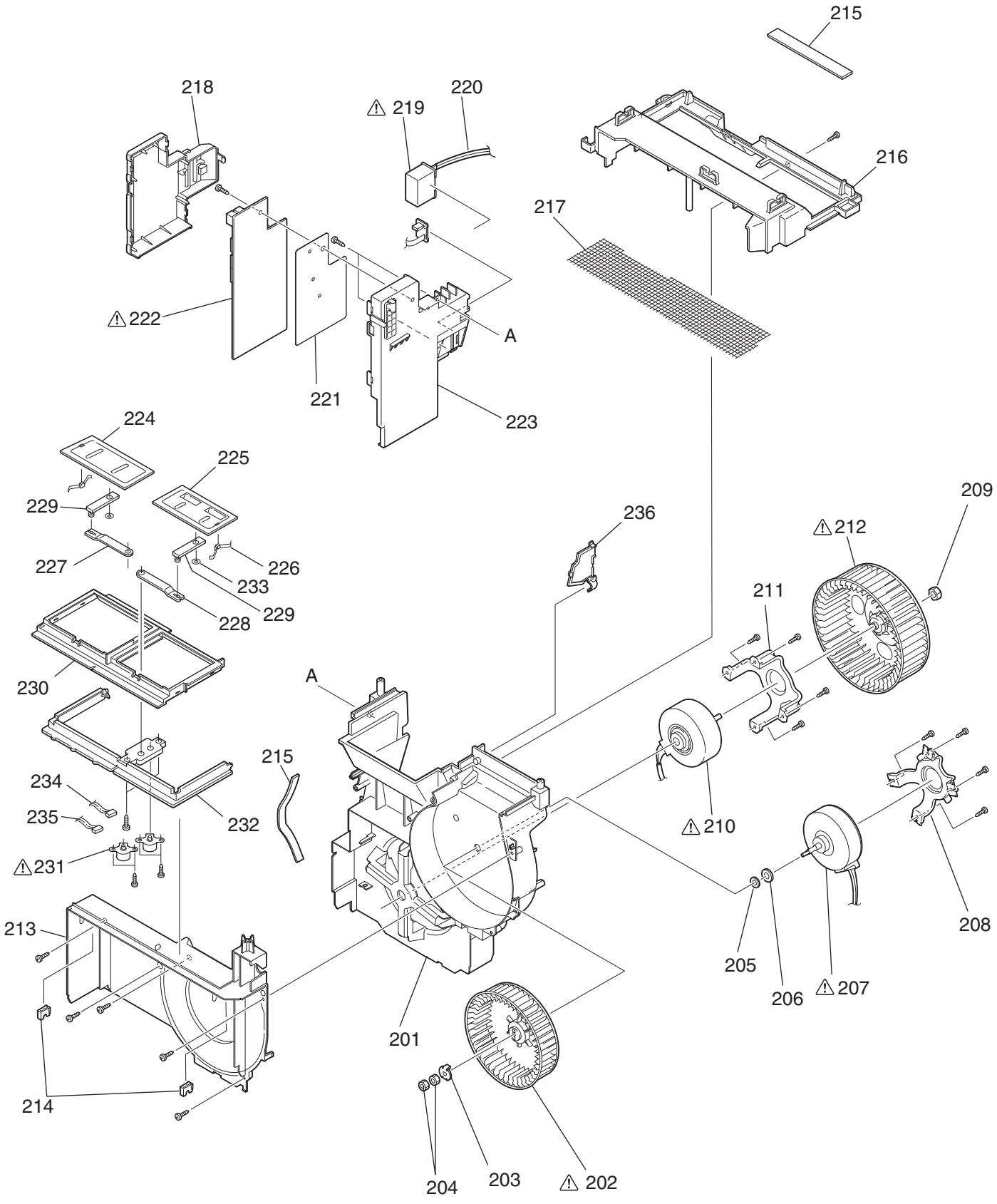
	Part Name	Part No.	Safety Part	Pc/1 unit	Compatibility/Miscellaneous
126	HANDLE∗BX	M22 B43 180		1	
127	LEAD-WIRE-L/PM-1∗HBX	-		1	
128	LEAD-WIRE-L/PM-2∗HBX	-		1	
129	PACK-SENSOR∗S(X)-2	M22 B15 223		1	
130	PACK-SENSOR∗S(X)-1	M22 B15 222		1	
131	LOUVER-U∗BX-W	M22 B44 405U		1	
132	PACK-SENSOR∗S(X)-1	M22 B15 222		1	
	I.B∗E15BX-S1-IT	M22 C72 936		1	(New)
A	SCW-PL-TBFZR 4X12	-		2	
B	SCW-PL-TBFZR 4X12	-		6	
C	SCW-PL-TBFZR 4X12	-		2	
D	SCW-PL-TBFZR 4X12	-		4	
E	SCW-TBFZR 3X10M	-		5	
F	SCW-TBFZR 3X8M	-		4	
G	SCW-TPFZR 4X12M	-		1	
H	SCW-MPFZR M4X14-TORX	-		2	

∗1. If the part is out of production, you may be required to use a common part.

∗2. Parts found installed in products may have a different part number from service parts. However, there should be no difference inperformance and can be installed.

MJ-E15BX-S1-IT Model Structural Disassembly Diagram

[Case and fan structural relationship]



Model MJ-E15BX-S1-IT Parts List [Case and fan structural relationship]

Notes:

1. Circled reference numbers indicate performance parts.
2. New parts and the parts that are used only with these models lack compatibility.
3. Those parts that are marked by ⚠ and ▭ are of critical importance for sustaining safety and performance. Use specified parts at replacement.
4. When ordering parts without part numbers, use the design number. The order may take a while to process.

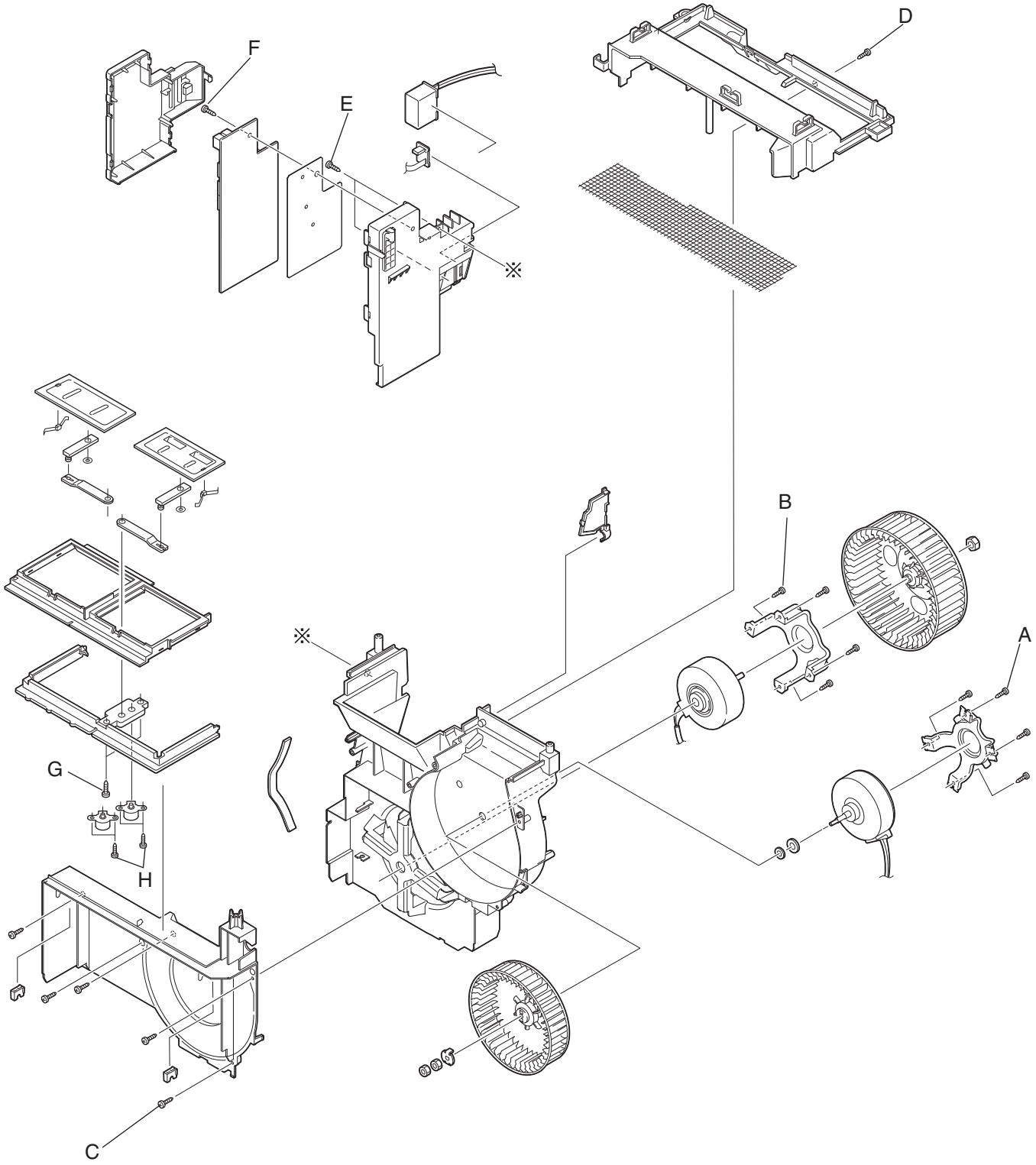
	Part Name	Part No.	Safety Part	Pc/1 unit	Compatibility/Miscellaneous
201	CASING∗100BX	M22 B43 310		1	
(202)	FAN-EVA∗BX	M22 C64 119	⚠	1	
203	FAN-PLATE∗R	M22 B39 119F		1	
204	NUT-HFZR M5	M22 B39 040		2	
205	SPACER-RUB∗H602	M43 P06 506		1	
206	WASHER∗H602	M43 P06 417		1	
(207)	MOTOR-EVA∗E15BX	M22 C64 620E	⚠	1	
208	HOLDING PLATE-M∗WX-R	M22 C51 260		1	
209	NUT-LFZR M6	M22 C60 041		1	
(210)	MOTOR-CON∗E15BX	M22 C64 620	⚠	1	
211	HOLDING PLATE-M∗NX-R	M22 C44 260		1	
(212)	FAN-CON∗ASSY-AX	M22 B39 119	⚠	1	
213	DIVIDING-PLATE∗100BX	M22 C69 359		1	
214	CUSHION HEX-T∗AX	M22 B39 770T		2	
215	PACK-SENSOR∗S(X)-2	M22 B15 223		2	
216	FRAME-NET∗100BX	M22 C69 300		1	
217	NET∗BX	M22 B43 360N		1	
218	COVER-BOX∗H100DX	M22 B51 320B		1	
(219)	RUN CAPACITOR∗E100PX	M22 C01 353	⚠	1	
220	LEAD WIRE-R/C∗100AX	-		1	
221	INS-PLATE-MICA∗100AX	M22 B39 731		1	
(222)	PCA∗MJ-E16BX∗PM	M22 C64 689	⚠	1	
223	BOX-PCA∗H100DX	M22 B51 311		1	
224	DAMPER-CON∗100BX	M22 B43 405		1	
225	DAMPER-EVA∗100BX	M22 B43 405E		1	
226	SPRING-DAMPER∗BX	M22 C69 129		2	
227	LEVER-CON∗100BX	M22 B43 116		1	
228	LEVER-EVA∗100BX	M22 B43 116E		1	
229	LINK∗100BX	M22 C64 183		2	
230	FRAME-DAMPER-T∗100BX	M22 B43 300		1	
(231)	STEPPING-MOTOR-BX	M22 B43 620	⚠	2	
232	FRAME-DAMPER-U∗100BX	M22 B43 300U		1	
233	PUSH-NUT SUS 3	-		2	
234	LEAD WIRE-S/M-CON∗BX	-		1	(Red)
235	LEAD WIRE-S/M-EVA∗BX	-		1	(Blue)
236	SPACER-C∗100BX	M22 C64 259		1	

∗1. If the part is out of production, you may be required to use a common part.

∗2. Parts found installed in products may have a different part number from service parts. However, there should be no difference inperformance and can be installed.

MJ-E15BX-S1-IT Model Structural Disassembly Diagram

[Case and fan structural relationship]



Model MJ-E15BX-S1-IT Parts List [Case and fan structural relationship]

Notes:

1. Circled reference numbers indicate performance parts.
2. New parts and the parts that are used only with these models lack compatibility.
3. Those parts that are marked by ⚠ and ▭ are of critical importance for sustaining safety and performance. Use specified parts at replacement.
4. When ordering parts without part numbers, use the design number. The order may take a while to process.

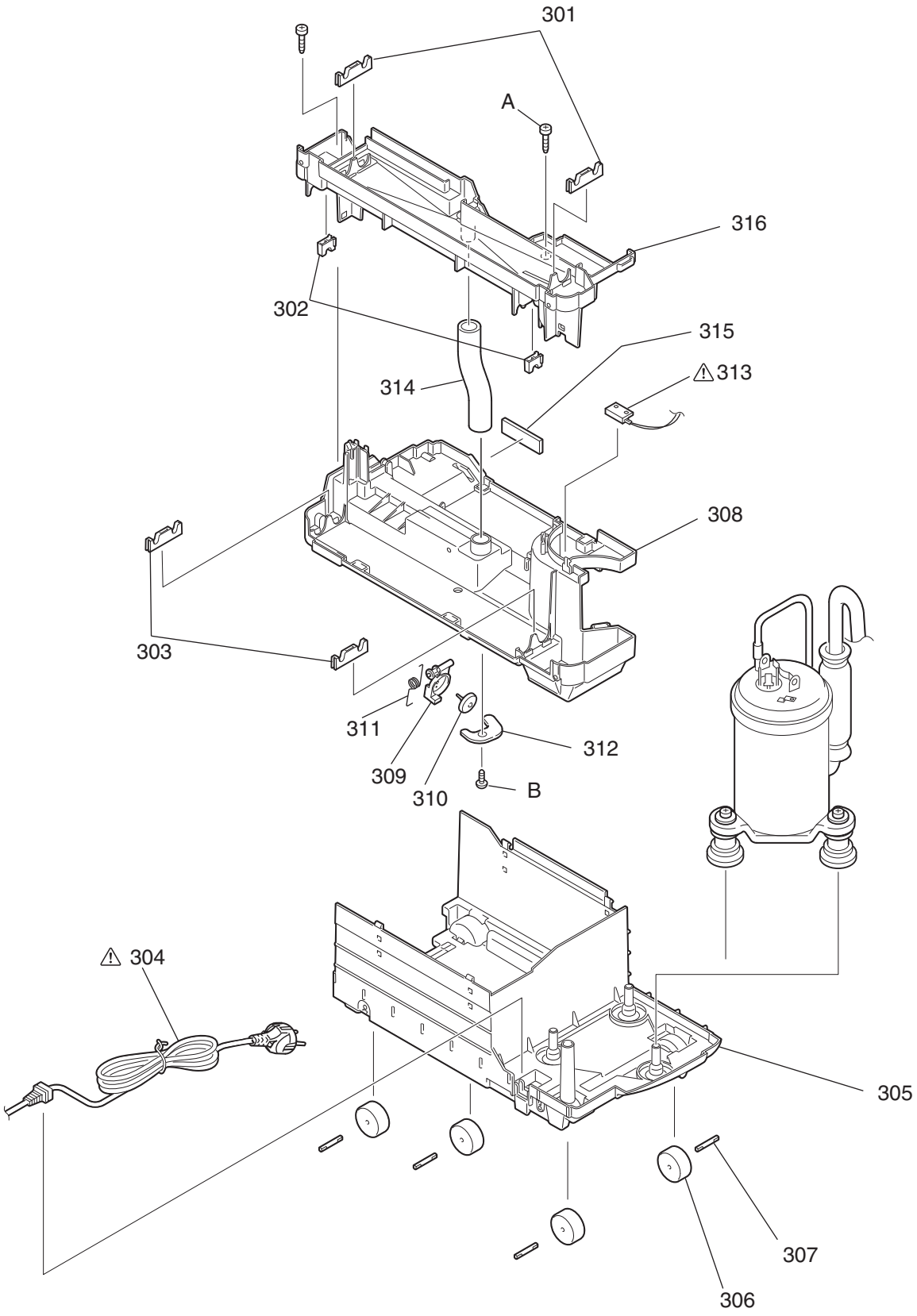
	Part Name	Part No.	Safety Part	Pc/1 unit	Compatibility/Miscellaneous
A	SCW-PL-TBFZR 4X12	-		4	
B	SCW-PL-TBFZR 4X12	-		4	
C	SCW-PL-TBFZR 4X12	-		5	
D	SCW-PL-TBFZR 4X12	-		1	
E	SCW-PL-TBFZR 4X12	-		2	
F	SCW-PL-TBFZR 4X8	-		1	
G	SCW-PL-TBFZR 4X12	-		2	
H	SCW-TPFZR 4X8M	-		4	

∗1. If the part is out of production, you may be required to use a common part.

∗2. Parts found installed in products may have a different part number from service parts. However, there should be no difference inperformance and can be installed.

MJ-E15BX-S1-IT Model Structural Disassembly Diagram

[Drain pan components]



Model MJ-E15BX-S1-IT Parts List [Drain pan components]

Notes:

1. Circled reference numbers indicate performance parts.
2. New parts and the parts that are used only with these models lack compatibility.
3. Those parts that are marked by ⚠ and ▭ are of critical importance for sustaining safety and performance. Use specified parts at replacement.
4. When ordering parts without part numbers, use the design number. The order may take a while to process.

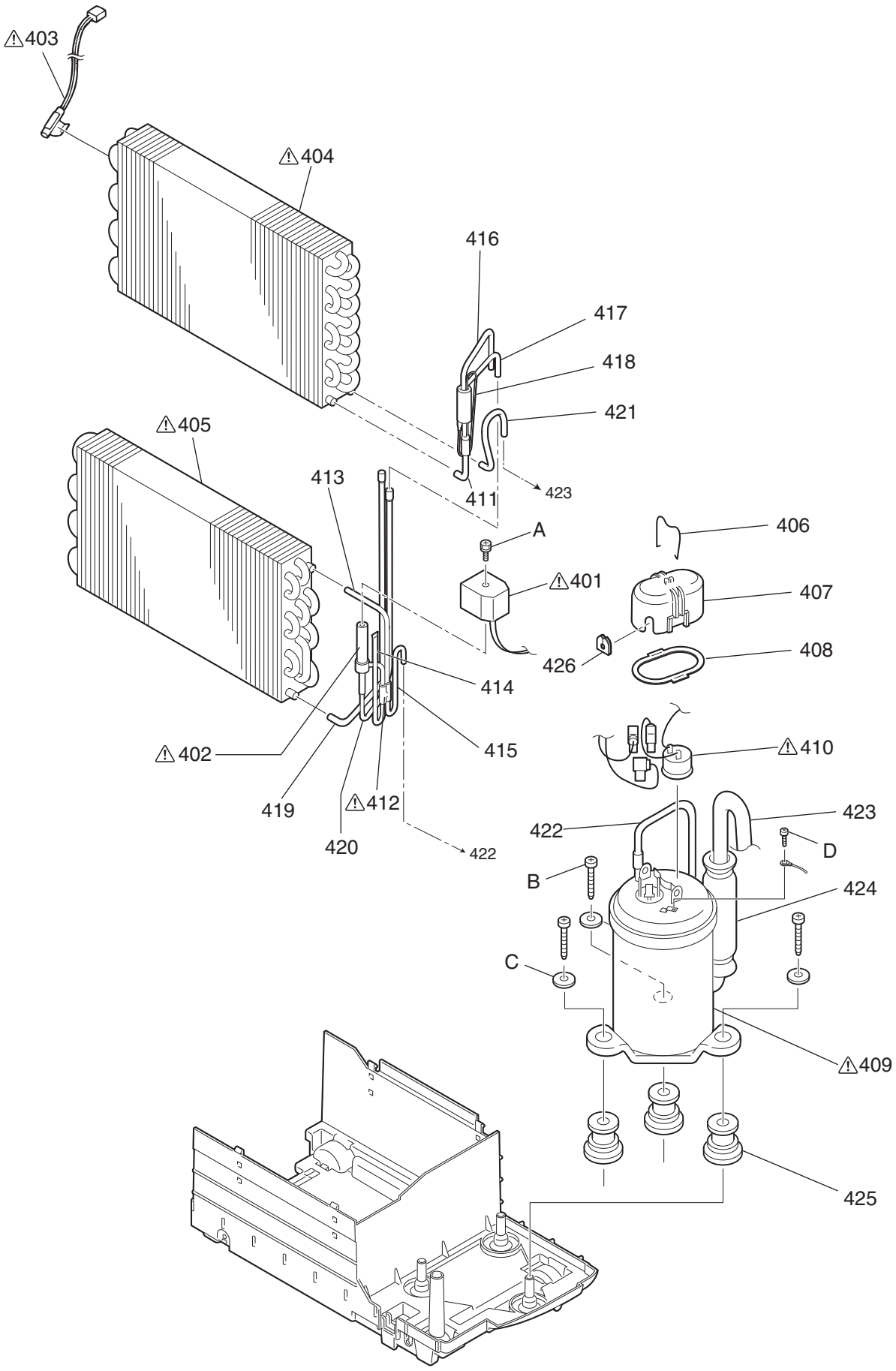
	Part Name	Part No.	Safety Part	Pc/1 unit	Compatibility/Miscellaneous
301	CUSHION HEX-U∗AX	M22 B39 770		2	
302	CUSHION HEX-T∗AX	M22 B39 770T		2	
303	CUSHION HEX-U∗AX	M22 B39 770		2	
(304)	PLUG-CORD∗E15BX-S1	M22 C69 509	⚠	1	
305	BASE∗H100BX	M22 B43 200		1	
306	WHEEL∗P(X)	M22 J90 908		4	
307	SHAFT∗B-G	M22 C56 100		4	
308	DRAIN-CON∗E15BX	M22 C64 340		1	
309	STOPPER-PL∗AX	M22 B39 202		1	
310	STOPPER-S∗AX	M22 B39 120		1	
311	SPRING-S∗AX	M22 B39 128		1	
312	LINK-ST∗AX	M22 B39 183		1	
(313)	SWITCH-LEVEL∗100AX	M22 B39 501	⚠	1	
314	DRAIN-PIPE∗AX	M22 B39 420D		1	
315	PACK-SENSOR∗S(X)-1	M22 B15 222		1	
316	DRAIN-EVA∗E15BX	M22 C64 340D		1	
A	SCW-PL-TBFZR 4X12	-		2	
B	SCW-DPSP 3X8M	-		1	

∗1. If the part is out of production, you may be required to use a common part.

∗2. Parts found installed in products may have a different part number from service parts. However, there should be no difference inperformance and can be installed.

MJ-E15BX-S1-IT Model Structural Disassembly Diagram

[Heat exchanger components]



Model MJ-E15BX-S1-IT Parts List [Heat exchanger components]

Notes:

1. Circled reference numbers indicate performance parts.
2. New parts and the parts that are used only with these models lack compatibility.
3. Those parts that are marked by ⚠ and ▭ are of critical importance for sustaining safety and performance. Use specified parts at replacement.
4. When ordering parts without part numbers, use the design number. The order may take a while to process.

	Part Name	Part No.	Safety Part	Pc/1 unit	Compatibility/Miscellaneous
(401)	S/COIL TAPE∗ASSY-EBX	M22 C64 629	⚠	1	
(402)	SOLENOIDO VALVE-R	M22 C50 629	⚠	1	
(403)	THERMISTOR-EVA∗180WX	M22 C51 555	⚠	1	
(404)	COOLER∗AX	M22 B39 390C	⚠	1	
(405)	COND∗AX	M22 B39 390	⚠	1	
406	CLIP	-		1	↵
407	TERMINA-CON-ASSY-DX2	M22 B51 320		1	↵
408	PACKING	M22 J16 923		1	
(409)	COMPRESSOR∗XB460VTE	M22 C57 118	⚠	1	
-	LEAD WIRE-C/P∗E15BX	-		1	XB460VTE
(410)	M-PROTECTOR∗LYDP98X	M22 C44 502	⚠	1	
411	PIPE IN COOL∗AX	-		1	LYDP98X
(412)	JOINT-100SX	M22 B15 653	⚠	1	
413	PIPE IN COND∗AX	-		1	
414	CHARGE PIPE∗BX	-		1	
415	PIPE DJ∗AX	-		1	
416	PIPE OUT SV2∗AX	-		1	
417	PIPE IN CT∗AX	-		1	
418	PIPE CT∗AX	-		1	
419	PIPE OUT COND∗BX	-		1	
(420)	PIPE OUT SV1∗DX	-	⚠	1	
421	PIPE OUT COOL∗AX	-		1	
422	PIPE DIS-ASSY∗DX	M22 B51 420		1	
423	PIPE SUC-ASSY∗DX	M22 B51 420S		1	
424	PIPE COVER∗COMP	M22 B15 221		1	
425	RUBBER-MOUNT	M22 B13 511		3	
426	BUSH-COMP∗DX	M22 B51 368		1	
A	SCREW SEMS M4X0.7X6	-		1	
B	SCW-TPFZR 5X35M	-		3	
C	SPL WASHER-R	-		3	
D	SCW-MPBM M4X6	-		1	

∗1. If the part is out of production, you may be required to use a common part.

∗2. Parts found installed in products may have a different part number from service parts. However, there should be no difference inperformance and can be installed.

14. Precautions

Precautions

The following diagrams indicate circumstances where danger can result from mishandling the unit.

⚠ WARNING

Mishandling may result in fatal or serious injuries.

⚠ CAUTION

Mishandling may result in injuries or damage to your home or property, etc.

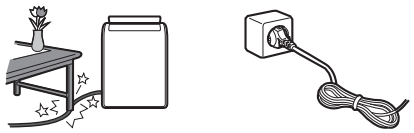
Meanings of the graphic symbols used in this manual and on the unit are explained below.

Forbidden	Do not disassemble	Always follow the instructions
Keep away from fire	Do not subject to water	

⚠ WARNING

Do not damage or modify the power cord or plug. Do not use power sockets in which the plug fits loosely.

Do not modify, bundle, twist, bend or heat the power cord. Do not place under objects or use with the end close to the plug bent.
(Keep pets from biting the cord.)



The cord may be damaged **resulting in fire, electric shock or heat generation**.

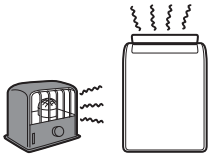
Do not plug many power cords into one power socket.

This may **result in fire, electric shock or malfunctions**.

Do not start/stop the unit by plugging/unplugging the power cord.

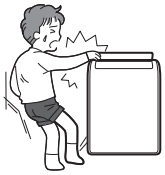
This may **result in fire and/or electric shock**.

Do not put the unit near heat-generating devices (such as stoves, fan heaters, etc.).



The plastic parts may melt and **cause fire**.

Do not insert your fingers, bar, or things that burn easily such as paper into an air outlet or air intake. Do not touch the swing louvre.



There is an internal heater, and such actions may **result in a fire, electric shock, burn, or malfunction**. Also, the internal fan rotates at high speeds, and such action may **result in an injury or malfunction**.

Do not attempt to repair, disassemble, or modify the unit.

This may **result in fire and/or electric shock**. Refer servicing to your dealer or Mitsubishi Electric Service Centre.

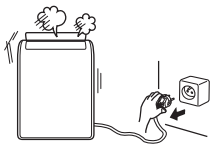
Exclusively use 220 to 240 V AC power sockets for the power supply.

Failing to do so may **result in a fire and/or electric shock**.

Wipe dust off the power plug and insert the plug firmly.

If the plug is not fully inserted into the socket, dust may gather on the connectors which may **cause fire and/or electric shock**.

Should abnormal symptoms occur (a burning smell, etc.), switch off the unit and unplug it from the socket.



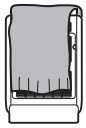
Continuing to operate the unit may **result in fire, electric shock, or malfunctions**. Contact your dealer or Mitsubishi Electric Service Centre for consultation.

Remove water that has collected in the tank.

Accidentally drinking the water or using it for other purposes may **cause illness and/or unforeseen accidents**.

⚠ CAUTION

Do not cover an air outlet or air intake with laundry, cloth, curtain, etc.



This results in poor ventilation and may **cause heat generation/fire**.

Do not put vases or any other objects filled with water on the unit.

Water may leak into the unit adversely affecting electric insulation and **cause electric shock and/or fire** by short-circuiting.

Do not wash the unit with water. Do not use the unit where it is likely to come in contact with water.

Exposure to water may **result in fire or electric shock** caused by an electric leak.

Do not use the unit where it may be exposed to direct sunlight or other weather conditions. (This unit is for indoor use only.)

This may **cause overheating, electric shock and/or fire** caused by an electric leak.

Do not use the unit in narrow, enclosed places such as inside closets, between pieces of furniture, etc.

This results in poor ventilation and may **cause heat generation and/or fire**.

Do not use combustion appliances in the path of the air outlet.

This may **cause incomplete combustion** in the appliance.

Do not use the unit in places that may be subject to oil or flammable gas leakage.

Such a leak around the unit may **cause combustion and fire**.

Do not use the unit in places where chemicals are used (such as hospitals, factories, laboratories or beauty salons).

Chemicals and solvents evaporated in the air may harm the unit and cause water in the tank to leak, **resulting in damage to property**.

Do not use the unit for special purposes, such as preservation of food, art or scientific works.

This may **negatively affect the quality** of the items stored.

Do not point airflow from the unit directly at the body for a prolonged period of time.

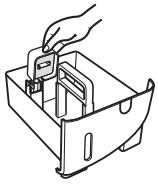
Be especially careful when using the unit where there is someone who is unable to adjust the humidity (infant, child, or elderly person).

If air-flow is directed at the body for long periods, it may **harm one's physical condition and lead to dehydration**.

Do not stand on, sit on or lean against the unit. Do not pull the unit by the air outlet.

As the unit is on wheels, it may move, tip over, or fall **causing personal injury**.

Do not remove the Styrofoam from the floating element.



The floating element will not be able to detect a full tank resulting in water leakage, **which may damage surrounding objects or cause electric shock and/or an electric leak**.

Do not drain water continuously if there is a possibility that temperature around the hose could drop to freezing point.

Water inside the hose may freeze and prevent the water in the tank from flowing out. The water may leak from the unit and **damage surrounding objects**.

Keep the continuous drainage lid out reach of children.

Failing to do so may **result in the lid being accidentally swallowed**.

⚠ CAUTION

Install the unit in a location where the floor is flat and stable.

If the unit falls over, the water collected in the water tank may leak **damaging surrounding objects and in turn result in fire or electric shock caused by an electrical leak**.

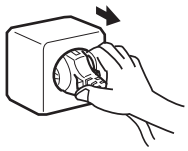
Before moving the unit always switch it off, unplug it and remove water from the water tank.

Moving the unit with water in its tank may cause the water to leak and **damage the surrounding objects and in turn result in electric shock and/or an electric leak**.

After emptying the tank, transport the unit by grasping the handle firmly.

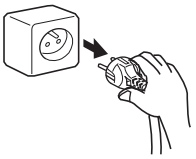
Losing your footing while carrying the unit may **cause personal injury or damage to the floor**.

Grasp the plug and remove from the power socket.



When removing the plug from the power socket, do not pull on it diagonally or by the cord as this may cause the projections/wiring to be damaged **resulting in a short circuit, electric shock or fire**.

Switch the unit off and unplug from the power source when cleaning it.



When the unit is on, the internal fan rotates at high speeds and may **cause injury**.

Unplug the unit from the power source when not using the unit for an extended period of time.

Otherwise it may **cause fire and/or electric shock** caused by an electric leak.

When draining water continuously or left unattended for long periods, inspect the unit every two weeks.

Do not allow debris to clog the filter/ hose as this may **cause overheating/ leakage**.

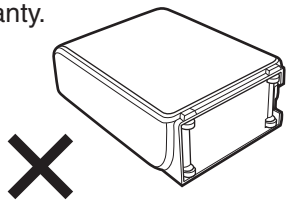
When using the continuous drainage outlet, make sure to position the hose so that the water drains without obstruction.

The water in the tank may leak and **damage surrounding objects**.

Use the unit with caution in rooms where the walls, furniture and art work are vulnerable to dry air, as it may cause cracks and warping.

Warning

- **Keep the unit always in an upright position.** Inclining the unit may cause water in the tank to leak into the unit, **resulting in malfunction**. Should you incline the unit accidentally, contact the place of purchase for advice.
- Damage to the dehumidifier caused by atmospheric conditions (ie. Salt or Sulphur) will not be covered under warranty.
- **Do not carry the unit horizontally.** This may **result in malfunctions**. Such malfunctions are NOT covered under warranty.



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Issued in 2010.06